



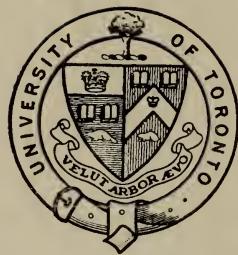
REPORT OF THE  
Hydro-Electric Power  
Commission  
OF ONTARIO

1944

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WILLS MACLACHLAN



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**LOOKING FORWARD —** Falls on the  
Agasabon River, Thunder Bay District,  
being surveyed for possible 25,000 horse-  
power Hydro development

Gov Doc. Ontario Hydro Electric  
Ont " Power Commission  
H ( THIRTY-SEVENTH ) ANNUAL REPORT  
OF

# THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

FOR THE YEAR ENDED OCTOBER 31st

1944



ONTARIO

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1945

THE HYDRO-ELECTRIC POWER COMMISSION  
OF ONTARIO

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T. H. HOGG, B.A.Sc., C.E., D.Eng. . . . . *Chairman*  
HON. GEORGE H. CHALLIES, Phm.B., M.L.A. *Commissioner*  
W. ROSS STRIKE (from June 16, 1944) . . . . . *Commissioner*  
OSBORNE MITCHELL . . . . . *Secretary*



CHAIRMAN'S LETTER OF TRANSMITTAL

*To His Honour*

THE HONOURABLE ALBERT MATTHEWS, LL.D.,

*Lieutenant-Governor of Ontario*

MAY IT PLEASE YOUR HONOUR:

The undersigned respectfully presents the Thirty-Seventh Annual Report of The Hydro-Electric Power Commission of Ontario for the fiscal year which ended October 31, 1944.

The record of the Commission's work presented in this Annual Report relates to three principal fields—the co-operative municipal field, the field of rural supply, and the northern Ontario field. The first two cover the Commission's activities on behalf of the co-operative systems, and the last relates to its trusteeship of the Northern Ontario Properties on behalf of the Province. Throughout the various sections of the Report dealing broadly with physical operation of the plants, constructional activities and financial statements, these fields of activity are clearly differentiated.

The Report also presents for the calendar year 1944 financial statements and statistical data relating to the municipal electric utilities operating in conjunction with the co-operative systems for the supply of electrical service throughout the Province.

**HYDRO IN 1944**

Less spectacular than in the early years of the war, but none the less essential, have been Hydro's achievements in the past year. That there has been no slackening in Ontario's war effort is shown by the fact that the electrical energy generated and purchased by the Commission to supply the Ontario load reached an all time high, exceeding twelve billion kilowatt-hours. Except for a few peak load periods when temporary cuts of short duration had to be made in "at will" power, all the demands for war activities in Ontario were met and essential civilian domestic and municipal power requirements suffered no shortage.

During the winter of 1943-44 strict economy and conservation of energy was required on the part of all citizens to enable the Commission to meet

war's demands. Later in 1944, due to some curtailment in the power demands of a few industries, the Dominion Power Controller was able to ease certain restrictions against municipal and commercial use which had been in effect since 1942. The margin between available supplies and present demands is still very small, but the total power supply has been made more effective by careful co-ordination, by improved equipment and by constant vigilance.

### **RELIABILITY OF HYDRO SERVICE**

It is a remarkable tribute to the efficiency and reliability of Hydro service that, during and following the great snowstorm of December 12, 1944, when transportation throughout the southern areas of Ontario was seriously crippled, electricity remained everywhere available "at the flip of a switch" for all the multiplicity of needs of our modern way of living.

Hydro service continued to pump our municipal water supplies and light our streets; it supplied power for the elevators in our public and commercial buildings and in many ways assisted in the restoration of transportation service. In our homes it provided hot meals and baths for many whose vitality was lowered as a result of struggling through the snow. It provided power for the radio and thus enabled measures for the alleviation of distress to be co-ordinated.

Throughout the countryside well illuminated farm houses gave assurance of safety and protection against the menace of the storm. Food supplies were protected by electric refrigeration and farm operations dependent upon electrical service continued to function with full efficiency. Without the aid of Hydro service the hardships resulting from this snowstorm, unprecedented since the era of automobile transportation, would everywhere have been more difficult to cope with.

Hydro service is being maintained under difficulties resulting from wartime shortage of manpower and materials. About 1,200 Hydro employees are at present either in the armed forces or in the service of the Dominion government doing special technical work associated with the war.

### **CO-ORDINATION OF POWER SUPPLIES AND LOAD DEMANDS**

During 1944 also, operating conditions on the whole were favourable. All the Commission's generating plants, with an aggregate normal capacity of 1,630,000 horsepower, were operated to the maximum extent. Generating units in all stations were only taken out of use in order to perform absolutely essential maintenance work.

Water conditions on most rivers and storage basins were sub-normal during the year. The spring run-off was less than that usually attained and in some areas an acute water shortage developed during the summer and fall months, necessitating strict conservation of storages during this period.

Fall rains were extremely light and the customary replenishment of storage at this time of the year was small, so that the winter season was entered with water storages in many areas below satisfactory levels.

No trouble from ice runs was experienced during the year. Electrical storms were numerous but damage was not serious except on two occasions when fires, due to lightning, caused damage to switching equipment at the Ontario Power plant on the Niagara river.

#### **Amalgamation of Southern Ontario Divisions Proving Beneficial**

An outstanding feature in the operation of the Southern Ontario system during the year was the creation of the Power Supervisors' office at Toronto. The organization of this office was completed early in the summer when it commenced operation on a 24 hour basis. Through an intricate system of communication lines, the power supervisors are in constant touch with all dispatching points and are in constant control of all generation, storages and purchased power, as well as the load demands of all main points of distribution. Thus supply and demand are co-ordinated in a manner which makes the most efficient use of the Commission's resources and increases the reliability of service to all customers served by the Southern Ontario system.

#### **Automatic Control of Frequency**

Since 1934 the frequency of the Commission's Niagara division has been automatically controlled, and more recently similar facilities were installed for precise control of frequency of the Eastern Ontario division. Amalgamation of these divisions, along with the Georgian Bay division to form the Southern Ontario system, has involved physical interconnection through a frequency-changer set at Chats Falls, thereby establishing synchronous operation of all generators on the system. Synchronous motors and electric clocks also keep in step throughout the whole area from Ottawa to Windsor, and maintain remarkably constant rate.

One of the advantages of this interconnection is the ability to transfer power from one division to another, in order to make most efficient use of all available power resources. At the same time, interconnection created the problem of *controlling* the power transferred from one division to another. This involves regulating the amount of power generated in each division to provide for divisional fluctuations in demand and also regulating the transfer of blocks of power back and forth from one division to another. This problem was solved by the Commission's engineers, with specially designed equipment for regulating the output of Chats Falls, Barrett Chute and plants of the Gatineau Power Company supplying power to the Commission. Control of these widely separated plants is exerted from Chats Falls through carrier communication channels, totalling about 200 circuit miles.

**DISTRIBUTION OF POWER TO SYSTEMS****PRIMARY POWER****20-MINUTE PEAK HORSEPOWER—SYSTEM COINCIDENT PRIMARY PEAKS**

System	1943	1944
	October	
Southern Ontario system.....	1,946,327	1,981,428
Thunder Bay system.....	104,129	122,252
Northern Ontario Properties.....	184,598	192,075
Total.....	2,235,054	2,295,755
December		
Southern Ontario system.....	2,033,103	2,044,416
Thunder Bay system.....	125,737	119,303
Northern Ontario Properties.....	189,652	220,936
Total.....	2,348,492	2,384,655

**PRIMARY AND SECONDARY POWER****20-MINUTE PEAK HORSEPOWER—SYSTEM COINCIDENT PEAKS**

System	1943	1944
	October	
Southern Ontario system.....	1,972,708	2,043,646
Thunder Bay system.....	124,638	127,212
Northern Ontario Properties.....	215,429	245,299
Total.....	2,312,775	2,416,157
December		
Southern Ontario system.....	2,114,953	2,084,275
Thunder Bay system.....	130,295	135,523
Northern Ontario Properties.....	191,918	273,611
Total.....	2,437,166	2,493,409

On the Southern Ontario system the primary load throughout the year, excepting one month, had a slightly higher horsepower peak than in the previous year which was the highest on record. The primary energy demands on this system however, declined by about half of one per cent.

For the Thunder Bay system primary energy demands were nearly ten per cent greater as a result of the new load delivered to the Steep Rock Iron Mines in the Rainy River district of the Northern Ontario Properties. In other areas served by the Northern Ontario Properties a further recession in gold mining activities caused a ten per cent drop in the output of primary energy.

The total output handled by the Commission from all sources in 1944 exceeded 12,000,000,000 kilowatt-hours. This was 2.2 per cent or about

260,000,000 kilowatt-hours above the previous year's output. Energy output for primary power purposes, which represents about ninety per cent of the total, decreased slightly from 10,853,000,000 kilowatt-hours in 1943 to 10,787,000,000 kilowatt-hours in 1944.

### **REORGANIZATION OF DEPARTMENTS**

For some time the Commission has been studying its internal organization with a view to improving its efficiency by regrouping the duties and responsibilities of its senior officers. The Commission has now given approval to a regrouping into seven main divisions of the various departments and sections of the Commission. This new grouping which includes three engineering divisions is as follows: (1) Executive and Secretarial; (2) Accounting; (3) Treasury; (4) Engineering—Operations; (5) Engineering—Design and Construction; (6) Engineering—Municipal; (7) Sales Promotion.

Over the past ten years the Commission's business practically doubled, its revenues from the supply of power and other operations increased from 30½ to 58½ million dollars and the energy handled by the Commission increased from 6½ to more than 12 billion kilowatt-hours. Much of this increase was due to the war but it meant increased work and responsibility in all departments of the Hydro service and especially to the engineering departments. It is believed that the regrouping effected will be beneficial to the efficiency of the whole organization.

### **FINANCIAL OPERATING RESULTS**

Wartime conservation measures, put into effect in 1942, continued to restrict energy consumption and load growth until just before the end of the fiscal year in October when the restrictions were lifted. Nevertheless the supply of power to municipalities continued to grow with a resultant increase in revenue of about five per cent. Revenue from power sold to large industries as system customers, also increased slightly.

Wartime factors tending to increase costs of operation were off-set by lessened expenses, particularly by an appreciable decrease in interest charges, so that aggregate expenses of the Southern Ontario system were less than last year. The increased use of power by the co-operating municipalities, with lowered aggregate expenses for this system gave a lower cost per horsepower. Anticipating this the Commission, effective January 1, 1944, reduced interim rates for a large number of municipalities. Altogether, the financial outcome for 1944 as to revenues and costs in southern Ontario was eminently satisfactory.

On the Thunder Bay system a moderate decline in revenues from the sale of power to mines and paper mills was more than off-set by increase in power supplied to municipalities and to the Rainy River district of Northern Ontario Properties for the use of the Steep Rock Iron Mines. Taken in

conjunction with relatively unchanged current expenses the financial operating condition of this system was exceptionally good in 1944.

In the districts of northern Ontario other than the new Rainy River district, there was continued decline in revenue from power used for gold and nickel production, particularly in the early months of the year but some reductions in expenses were effected and the financial operating results of the Northern Ontario Properties as a whole continued to reflect a sound condition.

#### **Assistance to Small Municipalities With Higher Wholesale Unit Costs**

It will be recalled that early in 1944 the Commission, reporting to the Provincial Legislature respecting differences in the cost of power supplied municipalities, stated that it had recommended to the cost contract municipalities that they be charged a small amount in the cost of power to be applied to bringing down the maximum cost per horsepower in certain exceptional cases. On March 15, 1944 the Ontario Municipal Electric Association adopted the following resolution:

"While adhering to the basic principle of the supply of power at cost, the Ontario Municipal Electric Association recommend to the co-operating municipalities, which comprise its membership, that they agree to a voluntary levy of not more than five cents per horsepower on their municipal load in order to reduce the price to those municipalities whose power costs are excessive; and that this fund be used to reduce the price of power to these municipalities to not less than \$39.00 per horsepower."

In accordance with this resolution The Hydro-Electric Power Commission, for the fiscal year ended October 31, 1944, reduced to \$39.00 per horsepower the wholesale cost of power to a number of small cost contract municipalities whose cost in accordance with their contract would have exceeded this maximum.

Due to the large aggregate load taken by the municipalities in 1944 which tended to keep down the unit cost to all municipalities, the Commission was able to make this reduction in the price of power with a levy of only two cents per horsepower.

#### **Hydro Utilities "Out of Debt"**

The record of financial progress of the municipal electrical utilities, as summarized in the Commission's Annual Reports, has some outstanding and indeed impressive features. The financial year of the municipal Hydro utilities ends on December 31, and the records for 1944 are not all complete. However, by modifying the 1943 records by the use of data in hand for 1944 and making certain estimates, the following statement can be made.

There are now 298 urban Hydro utilities and the total of plant cost is \$102,500,000. Because much of the plant has been financed by use of surplus and reserves, the total of debenture debt that was incurred throughout the

years was only \$57,200,000. Of this amount all but \$13 000,000 has already been repaid and, besides the actual repayments, an additional \$5,500,000 has been accumulated by certain municipalities in sinking funds specifically earmarked for meeting the principal on debentures. Thus the outstanding debentures not covered by sinking funds total only \$7,500,000 or about 7.3 per cent of the total cost of plant.

But the relation of plant to debentures is only part of the financial picture. As long as a utility is a going concern it is likely to have at the end of any year current assets and current liabilities. The liabilities of the 298 municipalities other than debentures are recorded as \$5,000,000. Available to meet these are current assets of a quickly realizable nature, of no less than \$30,000,000. This gives an excess of current assets over current liabilities of \$25,000,000, a sum three and one-half times as great as the debentures not covered by sinking funds.

The figures cited are, of course, simply a summation of 298 separate utilities. Considering them individually 254 have liquid assets sufficient to discharge their total liabilities and of these 171 have actually paid off their debenture debt. Even the 44 Hydro utilities that were not actually in a position to consider their plant as debt free were well advanced towards such a status. This group of municipalities has a total plant of \$15,800,000 and their liquid assets applied against their total liabilities would leave only \$1,300,000 as a remaining debenture debt against the plant.

#### **Utilization of Reserves**

It is the Commission's policy to defer until after the war any maintenance work not immediately essential for the security and satisfactory operation of its generating plants and other structures and equipment. A similar policy has governed the local Hydro commissions. It follows, therefore, that there is a large accumulated amount of normal maintenance work to be overtaken, increased in volume by the extra depreciation resulting from continuous operation at high loads.

To meet the costs of the maintenance work which has been deferred, and of new construction involving many overdue improvements and additions, the Commission and the local utilities have set aside during the war special reserves and have accumulated surpluses. Thus the surpluses accumulated by the local Hydro utilities are earmarked for an active programme of maintenance work and new construction. The programme at present planned would involve expenditures for deferred maintenance and new capital construction of about \$6,000,000 per annum for the immediate post-war period.

#### **ENGINEERING AND CONSTRUCTION ACTIVITIES**

Although the Commission, during the past year, has completed no large generating plants or extensive transmission lines, nevertheless month by

month and year by year the basic engineering work essential to the functioning of the whole Hydro service goes on without ceasing. Such co-ordinated planning for improved service involves many undertakings which were they not a relatively small part of a huge operating system would themselves be engineering accomplishments of no mean magnitude. For example, at Burlington transformer station one 40,000 kva synchronous condenser was placed in service in January and a second one in June. Again, the arrangements made to centralize in Toronto the overall supervision of operations in southern Ontario, involve the construction and co-ordination of an intricate system of communications and supervisory equipment.

During the war rapid changes have taken place in the power demands of certain industries. In other cases war industries have been established where no industrial development existed. Thus the Commission has had to be ready at all times, quickly to modify its distribution networks by increasing the capacity of its lines in one place, moving transformers from place to place, taking down copper conductor no longer required and re-erecting it in areas possibly hundreds of miles distant to meet new and unexpected developments. All this has been done under conditions made more difficult by the shortage of both labour and materials.

The chief engineering works carried on during the past year were the completion of the transmission line and auxiliary equipment serving the Steep Rock Iron Mines; the construction of a fourth unit of 19,000 horse-power at the Alexander development on the Nipigon river, and the additions at Burlington transformer station already referred to.

#### **Long Range Planning**

The power loads in southern Ontario, greatly increased by war demands, have put to use practically all available developed power sources. To serve these loads, the transmission and distribution facilities and the generating station capacities have been taxed to, and in some cases beyond, their proper economic limits in order to minimize expenditures of labour and materials in wartime. In the post-war years, after a period of adjustment, it is expected that normal load growth will be resumed and new power resources and facilities will be required. In addition many of the old facilities provided 20 or 30 years ago have become inadequate for best efficiency in the enlarged system, as it is expected to develop.

In order that extensions and rehabilitations may be made in an orderly manner to dovetail into a master plan, the Planning engineers of the Commission have been studying various possibilities of load growth that may develop throughout Ontario in the next 10 or 15 years, and determining the best sequence of power developments and arrangement of transmission and other facilities to meet the growing needs. It is, of course, not possible to foresee all contingencies, but it is possible to determine the governing engineer-

ing principles and make a long term plan, flexible as to details but orderly in its main framework. In making these studies the Commission's network calculator has rendered good service.

As part of its long term planning programme for improved transmission and distribution facilities, the Commission in 1944 decided to install at Essex transformer station a 40,000 kva synchronous condenser purchased at the same time as the two installed at Burlington transformer station and work on the project is in hand. Again, in the southern area of the Niagara peninsula the 44 kv supply of power from Niagara transformer station to Welland and Dunnville was replaced with a 26.4 kv supply from the 110 to 26.4 kv Crowland transformer station situated close to the centre of the very large industrial loads served in this area. The copper conductor used to supply the Steep Rock Iron Mine was largely salvaged as a result of these improvements.

Improvements to distribution networks included the replacement of a number of oil breakers with others of higher rupturing capacity; the erection at Tweed of a 100 kva 44/4 kv distribution station to supply the rural district; at Oakville a new station of 600 kva capacity, and a new station of 2,000 kva for the Polymer Corporation.

In the Thunder Bay system changes to relay, metering and switching equipment were made to improve service security and promote more efficient use of available power. The capacities of Port Arthur distribution station and Rosslyn distribution station were increased.

In the Rainy River district of Northern Ontario Properties completion of 120 miles of 110 kv transmission line from Port Arthur to Steep Rock Iron Mines, placed in service on November 28, 1943, was followed during 1944 by the erection of five patrolmen's houses along the right-of-way and by the construction of a 450 kva 44/8 kv step-down station at Atikokan to supply the townsite for Steep Rock Iron Mines.

#### **Niagara Falls Remedial Weir Completed**

One hydraulic project, the remedial weir above Niagara Falls, was completed in September 1944. The weir, built in the swift water above the rapids in the upper river, extends about 1,400 ft. toward the American shore from a point about 200 ft. from the Canadian shore. The gaps adjacent to the ends of the weir maintain an even flow of water close to the shores. At the Canadian side this increased flow maintains an ample supply of water for the power plants down stream. On the United States side the additional water ensures movement of ice from the vicinity of the intake of the United States power plants and enhances the beauty of the American falls.

The weir itself is entirely below the surface of the water and consists of a loose rock fill in which individual pieces of rock up to 10 tons in weight are

used. When work ceased in 1944 the weir had restored levels in the upper river to the extent contemplated, had enhanced the appearance of the American falls and improved conditions for generation of power on both sides of the river.

#### **Progress at Alexander Generating Station**

The extension at Alexander generating station on the Nipigon river consists of the installation of a fourth unit for which provision was made when the plant was designed in 1929-30. The new unit of 19,000 horsepower will give the plant a total rated capacity of 73,000 horsepower, and with the existing plant at Cameron Falls a total capacity of 148,000 horsepower will be available on the Nipigon river.

Under the extra strain imposed by operation at full capacity for long periods repairs and renewals are considerably heavier and some essential work of this character was done at the Ontario Power plant at Niagara, at Eugenia Falls and Elliott Chute in the Georgian Bay division, and at High Falls in eastern Ontario.

Detailed surveys were made of a power site near the mouth of the Aguasabon river about sixty miles east of the Nipigon. The information secured indicates the possibility of completing a development having a capacity of 25,000 to 30,000 horsepower utilizing in addition to the flow of the Aguasabon river itself the flow diverted from the watershed of Long lake.

#### **CONSERVATION OF NATURAL RESOURCES**

The Hydro-Electric Power Commission is intimately concerned with the conservation of Ontario's natural resources in its widest and most beneficial interpretation.

Although primarily concerned with the development and utilization of electric power derived from the Province's rivers, the Commission nevertheless recognizes that water power is only one of several beneficial services in which water resources are employed. Other uses are domestic and municipal supply, agriculture and irrigation, navigation, fisheries, lumbering, flood control, sanitation and industrial requirements.

When planning to utilize water power resources, it is important to relate any proposed development to possible development at other sites on the same river. Before any development is undertaken a general scheme for a properly co-ordinated development of all power sites and storage facilities on the river is worked out. This was done on the Madawaska before the developments at Barrett Chute and Bark Lake dam were undertaken. Investigations in greater detail are now being made at special sites on the Madawaska river so that the plans for development may be so far advanced that no delay is experienced when the time comes to make use of them.

Conservation also implies the maintenance and, where possible, the improvement of the regimen of the flow of all power producing rivers. This

in turn involves conservation of our land resources by the prevention of erosion, by the maintenance of fertility of the soil and by the use of the land in every case for the purposes for which it is most suitable.

To further this objective the Commission, during 1944, assisted a Dominion-Provincial project of some significance, namely, a report on the Ganaraska watershed, being represented by a member of its staff on an Interdepartmental Committee of the Province. The report was prepared through the joint authorization of the Dominion Government, represented by the Advisory Committee on Reconstruction, and the government of Ontario, represented by the Interdepartmental Committee on Conservation and Rehabilitation, and deals with the problems of conservation, flood control and rehabilitation in the watershed of the Ganaraska river which drains into lake Ontario at Port Hope.

Although this watershed of 100 square miles does not afford water powers of the magnitude required for modern central station electric supply, there were at one time 36 dams on the river, with 35 sawmills, 18 grist mills and 5 woollen mills. The problems dealt with in this sample or "type" survey are typical of those facing numerous other areas in the Province and the method of study and attack will serve as a guide elsewhere.

Further studies, in all probability, will be made in other river valleys and with this in view, a National Resources Research Committee has been formed by the Provincial Department of Planning and Development. The Commission's Hydraulic Engineer has been appointed to this committee.

#### **NEW PROPERTIES IN NORTHERN ONTARIO**

The Hydro-Electric Power Commission of Ontario has agreed, on behalf of the Government, to purchase the power system of the Northern Ontario Power Company Limited for \$12,500,000, and when the necessary legal matters have been completed the Commission will take over its operation.\* The properties include eight hydro-electric plants with an installed capacity of 66,840 horsepower, 739 miles of transmission lines, 157 miles of distribution lines and 421 miles of telephone lines. Of the installed capacity of 66,840 horsepower, 26,040 horsepower is generated at 60 cycles; the remainder is generated at 25 cycles.

For some years the Commission has been selling power wholesale to the Northern Ontario Power Company and at the same time supplying adjacent mining territory with service. When acquired the properties will be amalgamated with the Abitibi district of the Northern Ontario Properties. By eliminating duplication of service economies will be secured. The acquisition would also enable the Commission to extend its Hydro rural service to many consumers in the areas served by the Company. It would further allow the Commission to reduce the cost of power to the mines in this territory from

\*This was done on March 27, 1945.

\$36.00 per horsepower to the price recently approved by the Government to all mines served by the Commission, which is \$27.50 per horsepower. The new price of \$27.50 per horsepower will represent a substantial saving and encourage development in hard rock mining in the immediate post-war period.

#### **BRIGHT FUTURE FOR RURAL ELECTRIFICATION**

The release by the Metals Controller of an increased quantity of material for the construction of rural primary lines that would bring Hydro service to food producers, or otherwise be of assistance to the war economy in rural areas, enabled the Commission to resume on a moderate scale the extension of rural service. A total of four hundred miles of primary line, chiefly short extensions to existing lines, was actually constructed and service was given to about 10,000 new consumers, 7,000 of whom received service from lines which already existed. The total number of consumers on rural lines at the end of 1944 exceeded 146,600.

Notwithstanding restrictions ordered by the Dominion Power Controller, which continued in force until October 1, 1944, the average power sold to all rural consumers, including war industries in rural areas, increased by nearly fourteen per cent. Although the various restrictions, both on extensions and use, have held back the utilization of Hydro service in rural Ontario, there is strong evidence everywhere of a keen desire to use more electricity—a desire that has been stimulated by the new uniform rural rate structure. Plans are being formulated and preparations made for increasing the use of Hydro service in farming communities after the war, in order to bring closer the time when Hydro service throughout the rural areas of Ontario will be taken as much for granted as it now is in the cities, towns and villages of this Province.

#### **ADAPTATION TO WARTIME REQUIREMENTS**

As is the case with many other large electric supply organizations, the staff of the Commission formerly engaged in promotional activities has, during the war years, devoted its attention primarily to the more efficient use of electricity by all consumers, to promoting new and more effective uses by war industries, to the encouragement of improved lighting in war production and to problems related to priorities and permits for the use of rationed or scarce supplies.

During 1944 a pamphlet entitled "Hydro on the Farm" was widely distributed to members of the Radio Forum and to various agricultural organizations throughout the Province. The revised rural rate structure and uniform rates and service classifications were explained to the public through general advertising channels.

A motion picture entitled "The Romance of a River" was produced and widely shown throughout the Province and copies of the film were sent to

Canada's army overseas. This picture tells the story of the Ogoki diversion and the DeCew Falls development.

Great interest has been developed in the subject of adequate lighting in schools; more than two hundred received assistance in planning better lighting. Offices and industries have also shown a steadily increasing interest in problems regarding better lighting. It is expected that when equipment is readily available this increased interest will react favourably to the revenue of the Hydro utilities and the Commission.

#### **TESTING AND RESEARCH**

All important materials and equipment purchased by the Commission are required to meet its specifications in order to ensure the high standard of construction which results in reliable, safe and economical operation. Routine inspection and testing are, therefore, an important part of the work of the Commission's laboratories.

Research in various fields was primarily concerned with activities for the Dominion government having actual potential value in prosecuting the war. In addition important studies were made of possible post-war applications for electricity in both the industrial and rural fields. The electric smelting of Ontario ores, the quick freezing of foods and the development of an improved Hydro water-heating unit for domestic use are some of the projects under study.

New developments in materials and equipment that after the war will become available to industry have been studied by the laboratories with a view to their application to the Commission's work. Plastics and synthetic rubber are well known examples; others occur in the field of electronics which offer new methods of recording electrical and physical quantities at a speed and accuracy hitherto impossible.

A third group of investigations bear on the conservation of critical materials and the more efficient operation and maintenance of Commission's properties. Examples of these include studies of methods for prolonging the life of wooden poles by preservative treatment *in situ*; methods for the early detection of faults in electrical insulation, and the protection of transformers, transmission lines and other electrical equipment against the hazards of lightning. An important section of the Commission's research activities is devoted to making improvements in the quality of concrete to make it more resistant to severe winter climate.

Many benefits accrue to the Commission, to industry and to the public by the development of technical standards. To this end the laboratories co-operate in the technical work of the principal engineering and scientific bodies in Canada and the United States.

### **THE COMMISSION AND ITS EMPLOYEES**

Since its formation The Hydro-Electric Power Commission of Ontario has sought to build into the Hydro organization a deep sense of public responsibility. It was early recognized that this could not be achieved unless competent technical assistance was employed under conditions which would ensure continuity of service. The Commission, therefore, has adhered to the merit system in the appointment and promotion of personnel, it has given fair remuneration and a high degree of security of employment. In return it has demanded and received from its employees intelligent industrious application and loyalty to the organization.

#### **The Quarter Century Club**

The Commission, created in 1906, has now been functioning for thirty-eight years. During the first few years its staff was relatively small but as the years passed the number of employees who had been with the Commission many years steadily increased until in 1938 it became possible to form the Quarter Century Club, with 109 active members. To-day those who have been with the Commission for twenty-five years or more number about 575 not including 30 retired on pension, and of this number 120 have served for thirty years or more.

#### **Employees in the Services**

In common with other industries the Commission has had to contend with a serious manpower shortage. Up to the present some 1,200 employees have enlisted in the armed services. Thirty-seven of these have been reported killed in action or missing and many have been decorated. When compulsory military service was instituted the Commission decided not to ask for deferments on behalf of its employees except for employees in certain vocations which required a lengthy period of training, and this policy has been consistently followed.

Those employees returning from the armed forces and other war work are, and will be assured of fair considerate treatment and protection of their seniority.

#### **Accident Prevention and Safety**

The electrical supply industry necessarily involves certain work that is classed as being of a hazardous nature. The Commission therefore, maintains a Safety Engineering staff whose principal function is directed towards the prevention of accidents. Every effort is made to ensure safe working conditions, fire protection, health and sanitation.

Accident prevention meetings educate the employees in safety measures and give instruction in artificial respiration. During the past year Commission employees have successfully resuscitated two fellow employees from electrical shock and in addition three members of the public—two from gas

asphyxiation and one from drowning. During the past few years the accident frequency has gradually declined.

#### **Health Service**

The Commission maintains a Medical staff to safeguard the health of its employees and to care for the injured. On all large construction jobs first aid personnel and equipment are supplied. Health conditions at all construction camps, including periodic examinations of drinking water supplies, are carefully checked.

Many power stations and communities connected therewith are situated in isolated places. In these nurses and field hospitals, together with community welfare activities, are maintained.

All employees to be engaged on a permanent basis are medically examined as well as all temporary employees going into unorganized territory.

During the past year an equitable plan of sick leave allowance has been instituted under which each employee may know exactly the benefits to which he is entitled.

#### **Pensions and Insurance**

The Commission's employees have had a contributory Pension and Insurance Plan for many years. Certain employees were unable for various reasons to qualify for the benefits under this plan and to assist this group a Savings and Retirement plan has recently been inaugurated which will build up a substantial fund for each employee by the time he leaves the employment of the Commission or reaches retirement age.

The Commission's desire is to ensure that the working conditions and remuneration for its employees shall be maintained at satisfactory levels consistent with economical business management. It believes in co-operation and consultation to this end and joint meetings are held regularly between representatives of the employees and management at various points to discuss difficulties which are usually settled to the satisfaction of both parties. To eliminate as far as possible discrepancies between various positions and districts a system of job evaluation and wage schedule has been established by co-operative action of employees and management.

#### **THE LOCAL COMMISSIONS AND PUBLIC SUPPORT**

This review of "Hydro in 1944" would be incomplete without a tribute to the local Hydro commissions and their staffs. Throughout the war years the Commission has received splendid co-operation and in their capacity as distributors the Hydro utilities have made service to war plants paramount.

That electricity supply as a public function is now an accepted feature of Ontario's economic structure and receives public support, is largely due to the faithful service of the local Hydro organizations. Hydro is in fact broad-based upon the people's will and is loyally served by men and women who are inspired by the best traditions of public responsibility.

## CAPITAL INVESTMENT AND RESERVES

### Capital Investment

The total capital investment of The Hydro-Electric Power Commission of Ontario in power undertakings is \$356,142,095.40 exclusive of government grants in respect of construction of rural power districts' lines (\$20,426,487.38); and the investment of the municipalities in distributing systems and other assets is \$136,688,780.23, making in power undertakings a total investment of \$492,830,875.63.

The following statement shows the capital invested in the respective systems, properties and municipal undertakings, etc.:

Southern Ontario system (including Hamilton street railway).....	\$287,401,114.88
Thunder Bay system.....	20,600,112.40
Office and service buildings.....	3,704,910.50
Construction plant and inventories.....	3,260,601.56
Total capital investments in co-operative systems.....	\$314,966,739.34
Northern Ontario Properties—Operated by H-E.P.C. on behalf of the Province of Ontario.....	40,978,022.68
Northern Ontario Properties—Construction plant and inventories.....	197,333.38
Total Commission capital investments.....	356,142,095.40
Municipalities' distribution systems.....	103,089,543.64
Other assets of municipal Hydro utilities.....	33,599,236.59
Total.....	<u>\$492,830,875.63</u>

### Reserves of Commission and Municipal Electrical Utilities

The total reserves of the Commission and the municipal electrical utilities for depreciation, contingencies, stabilization of rates, sinking fund and insurance purposes, amount to \$344,684,635.20, made up as follows:

Southern Ontario system (including Hamilton street railway).....	\$179,907,080.12
Thunder Bay system.....	12,448,996.96
Office and service buildings and equipment.....	1,564,542.46
Total reserves in respect of co-operative systems' properties.....	\$193,920,619.54
Northern Ontario Properties.....	18,660,068.92
Fire insurance reserve.....	132,583.65
Miscellaneous reserves.....	575,169.89
Employers' liability insurance, and staff pension reserves.....	10,780,663.84
Total reserves of the Commission.....	\$224,069,105.84
Total reserves and surplus of municipal electric utilities.....	120,615,529.36
Total Commission and municipal reserves.....	<u>\$344,684,635.20</u>

### REVENUE OF COMMISSION

The revenue of the Commission at interim rates from the municipal utilities operating under cost contracts, from customers in rural power districts and from other customers with whom—on behalf of the municipalities—the Commission has special contracts, all within the Southern Ontario and Thunder Bay systems, aggregated \$51,257,245.51. The revenue of the Commission from customers served by the Northern Ontario Properties, which are held and operated in trust for the Province, was \$5,000,524.25, making a total (excluding \$225,446.15 of Northern Ontario Properties revenue transferred to Thunder Bay system in respect of power supplied) of \$56,032,323.61.

Summarized operating results of these co-operative systems and rural power districts and of the Northern Ontario Properties, follow:

#### **Summarized Operating Results**

##### SOUTHERN ONTARIO SYSTEM—THUNDER BAY SYSTEM RURAL POWER DISTRICTS

Revenue: amount received from or billed against municipalities and other customers.....	\$45,742,246.68
Revenue from customers in rural power districts (Retail).....	<u>5,514,998.83</u>
Total revenue, systems and rural.....	\$51,257,245.51
Operation, maintenance, administration, interest and other current expenses.....	\$31,748,847.86
Provision for reserves—	
Renewals.....	\$2,738,600.43
Contingencies and obsolescence.....	9,978,924.64
Stabilization of rates.....	33,793.90
Sinking fund.....	3,189,867.54
	<u>15,941,186.51</u>
	<u>47,690,034.37</u>
Balance.....	<u>\$ 3,567,211.14</u>

##### NORTHERN ONTARIO PROPERTIES

Held and operated by The Hydro-Electric Power Commission of Ontario  
In trust for the Province of Ontario

Revenue: amount received from or billed against municipalities and other cus- tomers.....	\$ 5,000,524.25
Operation, maintenance, administration, interest and other current expenses.....	\$ 2,866,368.18
Provision for reserves—	
Renewals.....	\$ 336,180.34
Contingencies and obsolescence.....	384,161.22
Sinking fund.....	1,183,099.86
	<u>1,903,441.42</u>
	<u>4,769,809.60</u>
Balance.....	<u>\$ 230,714.65</u>

**COMPARATIVE FINANCIAL STATEMENTS 1943-1944****Cooperative Systems of the Commission****SOUTHERN ONTARIO SYSTEM**

Embracing Niagara, Georgian Bay and Eastern Ontario divisions

	1943	1944
OPERATING EXPENSES AND FIXED CHARGES	\$ c.	\$ c.
Power purchased.....	11,048,157.25	10,807,512.45
Operation, maintenance and administration.....	7,778,790.53	7,954,180.27
Interest.....	12,215,618.86	11,654,752.45
Provision for renewals.....	2,491,264.88	2,573,497.34
Provision for contingencies and obsolescence.....	8,051,691.69	9,430,542.93
Provision for stabilization of rates.....	1,693,094.10	.....
Sinking fund.....	2,931,011.50	2,991,625.22
 TOTAL COST OF POWER	 46,209,628.81	 45,412,110.66
REVENUE from municipalities at interim rates, from rural consumers and from private customers under contract rates	47,329,527.82	48,892,351.62
 Net balance credited to municipalities under cost contracts....	 1,119,899.01	 3,480,240.96

**THUNDER BAY SYSTEM**

	1943	1944
OPERATING EXPENSES AND FIXED CHARGES	\$ c.	\$ c.
Operation, maintenance and administration.....	375,030.54	405,465.42
Interest.....	973,434.96	926,937.27
Provision for renewals.....	165,159.46	165,103.09
Provision for contingencies and obsolescence.....	297,357.99	548,381.71
Provision for stabilization of rates.....	90,335.03	33,793.90
Sinking fund.....	198,272.40	198,242.32
 TOTAL COST OF POWER.....	 2,099,590.38	 2,277,923.71
REVENUE from municipalities at interim rates, from rural consumers and from private customers under contract rates	2,188,377.46	2,364,893.89
 Net balance credited to municipalities under cost contracts ...	 88,787.08	 86,970.18

### MUNICIPAL ELECTRIC UTILITIES

The following is a summary of the year's operation of the local electric utilities conducted by municipalities receiving power under cost contracts with the Commission:

Total revenue collected by the municipal electric utilities.....	\$42,835,234.32
Cost of power.....	\$26,470,209.32
Operation, maintenance and administration.....	6,776,281.18
Interest.....	700,899.23
Sinking fund and principal payments on debentures.....	1,544,325.89
Depreciation and other reserves.....	3,441,959.82
 Total.....	 38,933,675.44
 Surplus.....	 \$ 3,901,558.88

With regard to the local Hydro utilities operating under cost contracts, the following statements summarize for each of the co-operative systems administered by the Commission, the financial status and the year's operations as detailed in Section X of the Report.

### SOUTHERN ONTARIO SYSTEM

The total plant assets of the Southern Ontario system utilities amount to \$98,833,491.76. The total assets, including an equity in the H-E.P.C. of \$65,837,399.13 aggregate \$196,442,843.71. The reserves and surplus accumulated in connection with the local utilities, exclusive of the equity in the H-E.P.C., amount to \$115,211,106.10, an increase of \$7,127,495.67 during the year 1944. The percentage of net debt to total assets is 7.3 a reduction of 2.6 per cent.

The total revenue of the municipal electric utilities served by this system was \$41,653,417.31, an increase of \$1,658,835.58 as compared with the previous year. After meeting all expenses in respect of operation, including interest, setting up the standard depreciation reserve amounting to \$2,572,031.61 and providing \$1,538,248.57 for the retirement of instalment and sinking fund debentures, the total net surplus for the year for the municipal electric utilities served by the Southern Ontario system amounted to \$3,729,360.56, as compared with \$1,767,449.09 the previous year.

### THUNDER BAY SYSTEM

The total plant assets of the Thunder Bay system utilities amount to \$2,784,298.13. The total assets, including an equity in the H-E.P.C. of \$3,649,148.88, aggregate \$7,727,494.76. The reserves and surplus accumu-

lated in connection with the local utilities, exclusive of the equity in H.E.P.C., amount to \$3,713,753.51 an increase of \$146,390.34 during the year 1944. The percentage of net debt to total assets is 6.2, a reduction of 0.3 per cent.

The total revenue of the municipal electric utilities served by this system was \$1,181,817.01, an increase of \$52,252.90 as compared with the previous year. After meeting all expenses in respect of operation, including interest, setting up the standard depreciation reserve amounting to \$54,253.00 and providing \$6,077.32 for the retirement of instalment and sinking fund debentures, the total net surplus for the year for the municipal electric utilities served by the Thunder Bay system amounted to \$172,198.32, as compared with a net surplus of \$144,848.45 for the previous year.

\* \* \*

#### **AFTER THE WAR**

Forecasting post-war trends in Canada's power supply requirements is difficult because variations in power demands are influenced chiefly by the industrial load. Before the war Canada had reached fifth place in world trade among exporting nations and has since acquired a greatly enlarged capacity to produce both agricultural and manufactured products. The ability to export these products depends not only upon matters of provincial and national economy but upon international trends and policies.

So far as Ontario is concerned it would appear to be in a relatively advantageous position with regard to power supplies in the immediate post-war era. During the later war years the Commission has been able to put to use all available power and energy and is virtually operating without any idle reserves of power. In fact, certain loads have been and are being cut during heavy peak load periods. This means that when war production eases off the Commission will welcome the accumulation of small power surpluses that will give it a safe margin of capacity over primary load and enable it to undertake a heavy programme of rehabilitation. After such safety reserves have been reestablished, the Commission will be able to relinquish certain power supplied for the war's duration under short term contracts.

Throughout the years the policies basic to the Hydro enterprise have resulted in a higher proportion of energy being supplied to the domestic load, a very stable load, than is usually the case elsewhere. Furthermore, even in the industrial field the Hydro load is well distributed to industries of a diversified character. Many of Ontario's factories therefore will quickly be reconverted to resume their former peacetime production in order to supply

the large backlog of consumer needs. As the country returns to peacetime conditions, active salesmanship will be brought to bear to stimulate the demand for such consumer goods. The Hydro Commission is planning to resume its sales promotion programme interrupted by the war and is making plans for this work covering domestic, rural, commercial, street lighting and industrial fields. In the rural field special attention will first be given to promoting the use of equipment which will result in increased cash returns to the farmers. For urban service emphasis will be put upon the sale of appliances having good load building characteristics such as ranges, water heaters and improved lighting.

Whatever may be the immediate effect of the cessation of hostilities upon power demands in Ontario, it remains true that the wealth of a modern state and its standard of living may largely be measured by its productive output per man-hour of work. The master key to greater productivity is to increase the amount of power employed per worker. In the long run therefore, Canada's continuing prosperity will depend upon whether or not it continues to develop and put to beneficial use increasing amounts of power derived from the water power resources with which this country has been so generously endowed.

Respectfully submitted,

T. H. HOGG,

*Chairman*

TORONTO, ONTARIO, MARCH 31, 1945.

T. H. HOGG, ESQ., B.A.Sc., C.E., D.ENG.,

*Chairman, The Hydro-Electric Power Commission of Ontario,  
Toronto, Ontario.*

Sir:

I have the honour to submit, herewith, the Thirty-Seventh Annual Report of The Hydro-Electric Power Commission of Ontario for the fiscal year which ended October 31, 1944. This report covers the operations of the Commission with regard to the supply of power to, or on behalf of, the partner Municipalities of the Co-operative Systems, as well as the administration of the Northern Ontario Properties, which are held and operated by the Commission in trust for the Province of Ontario.

I have the honour to be, Sir,

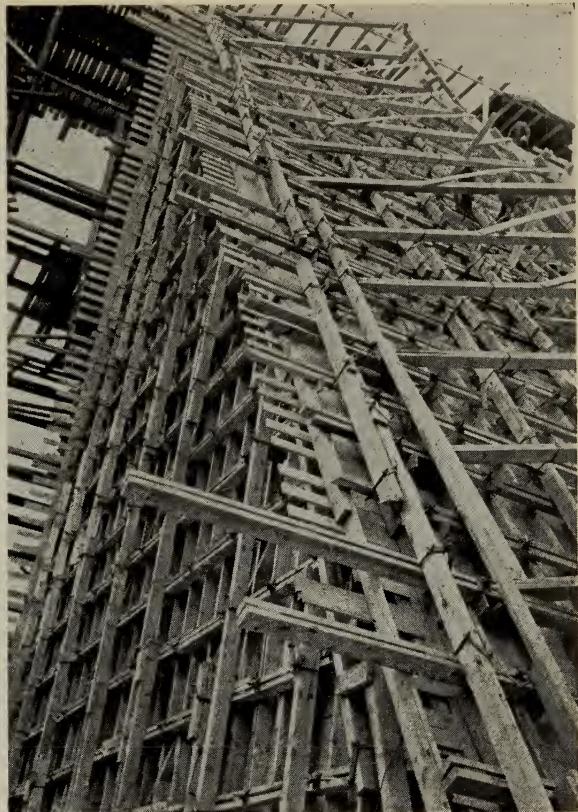
Your obedient servant,

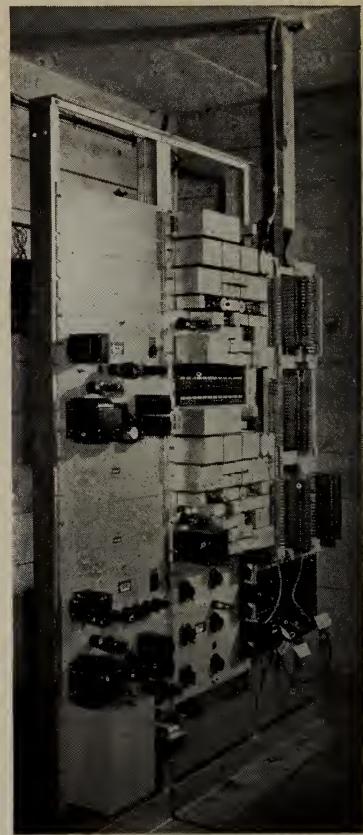
OSBORNE MITCHELL,

*Secretary*

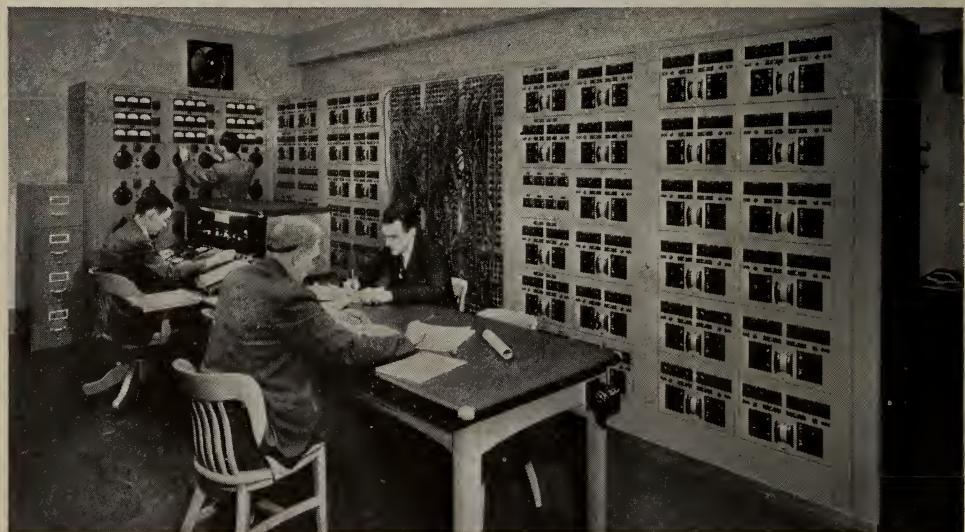


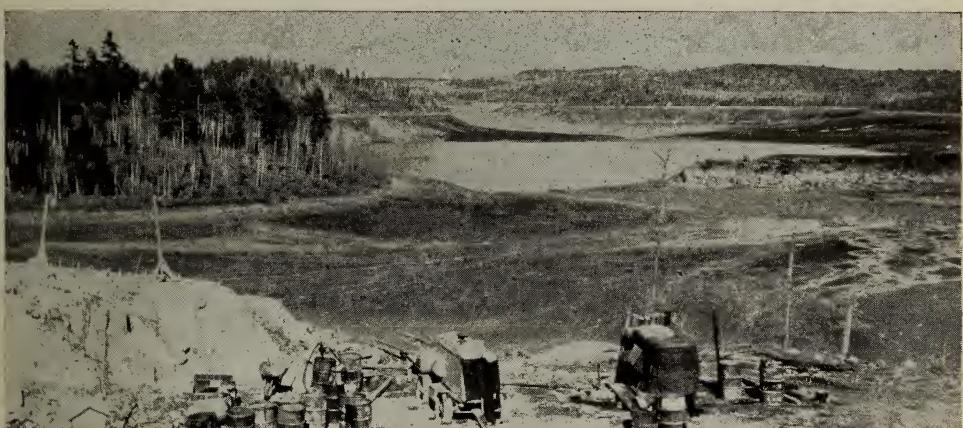
After strenuous work in the open the meals provided became an important feature of life in a construction camp. Right, timber form work for a dam in eastern Ontario. Below, one of three bays in the dining room of a construction camp





Co-ordination of power supplies and load demands over a wide area is greatly facilitated by automatic frequency control and the use of carrier communication channels. Left, control room and right, carrier equipment at Chats Falls generating station. Below, network calculator





Unwatering Steep Rock Lake. (a) First step, diversion of inflow via Finlayson lake to lowest arm of Steep Rock lake. Exit to diversion channel from lowered Finlayson lake. (b) Steep Rock lake lowered 70 feet, bar appearing between Falls bay at inlet end and middle section covering ore bodies A and B. (c) Mining ore from ore body B, lake down 130 feet



Accident prevention and safety engineering contribute to reliability of service under wartime conditions. Unloading a carload of poles at one time was considered a hazardous undertaking. The application of sound methods and good supervision has reduced it to a simple and safe operation. Above, safe way to cut the top wires when unloading a car of poles. Below, a safe position for a workman to take when rolling a pole

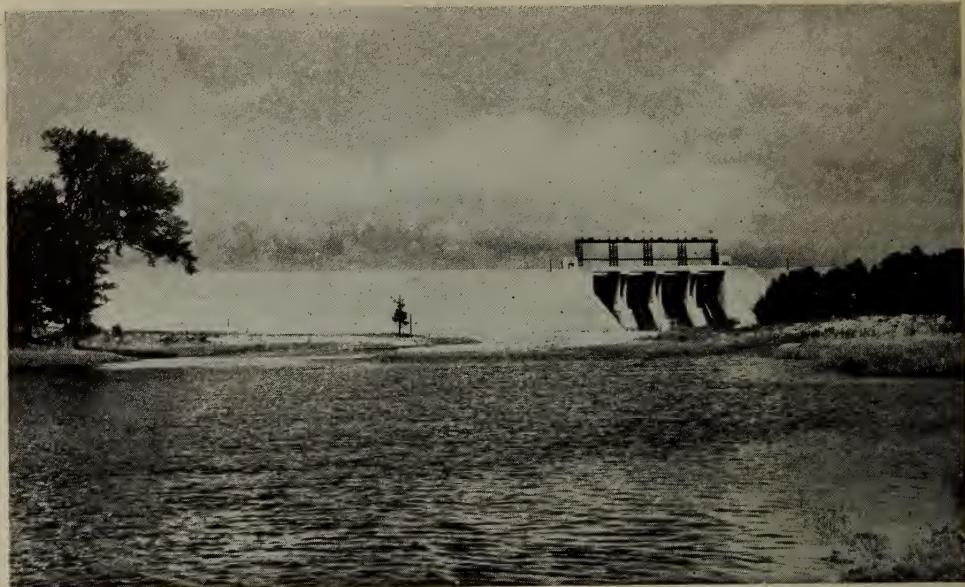




The use of caterpillar tractors greatly facilitates the stringing of power conductors in the rough northern mining districts of Ontario



By the construction of a Remedial Weir above the Canadian Falls at Niagara the scenic beauty of both falls was improved and more water was made available for war time power needs. Broken water shows line of weir with tail cableway tower at right



Floods, erosion and pollution adversely affect the prosperity of river valley communities and lessen the demand for electrical service. Above, the Shand Dam, the first conservation unit constructed by the Grand River Valley Conservation Commission. In 1944 it rendered valuable service both in flood control and in providing cleansing flow during low-water periods. (Photo by R. F. Legget)



Use of power in connection with grain storage is an important Hydro load in the Thunder Bay district. Above, Ogilvie Flour Mill and Grain Storage Elevators at Fort William

## CONTENTS

SECTION	PAGE
FOREWORD AND GUIDE TO THE REPORT	1
I. LEGAL	11
RIGHT-OF-WAY AND PROPERTY	12
II. OPERATION OF THE SYSTEMS:	
GENERAL	15
TOTAL POWER GENERATED AND PURCHASED (Table)	16
SOUTHERN ONTARIO SYSTEM	20
THUNDER BAY SYSTEM	29
NORTHERN ONTARIO PROPERTIES	29
III. MUNICIPAL WORK:	
SOUTHERN ONTARIO SYSTEM	36
THUNDER BAY SYSTEM	42
NORTHERN ONTARIO PROPERTIES	43
IV. RURAL ELECTRICAL SERVICE	45
NEW UNIFORM RURAL RATE STRUCTURE	49
V. PROMOTIONAL AND WAR SERVICES	63
VI. HYDRAULIC ENGINEERING AND CONSTRUCTION:	
GENERAL	65
SOUTHERN ONTARIO SYSTEM	65
THUNDER BAY SYSTEM	68
VII. ELECTRICAL ENGINEERING AND CONSTRUCTION:	
GENERAL	71
SOUTHERN ONTARIO SYSTEM	72
THUNDER BAY SYSTEM	77
NORTHERN ONTARIO PROPERTIES	78
TABULATION OF TRANSFORMER CHANGES	79
TOTAL MILEAGE TRANSMISSION LINES (Table)	80
TRANSMISSION LINE CHANGES AND ADDITIONS	81
COMMUNICATIONS—ALL SYSTEMS	82
DISTRIBUTION LINES AND SYSTEMS IN RURAL POWER DISTRICTS	83

SECTION	PAGE
VIII. RESEARCH, TESTING, INSPECTION, PRODUCTION AND SERVICE - - - - -	84
ELECTRICAL INSPECTION - - - - -	93
 IX. FINANCIAL STATEMENTS RELATING TO PROPERTIES OPERATED BY THE COMMISSION:	
EXPLANATORY STATEMENT - - - - -	95
 CO-OPERATIVE SYSTEMS AND PROPERTIES:	
BALANCE SHEET - - - - -	102
STATEMENT OF OPERATIONS - - - - -	104
SCHEDULES SUPPORTING THE BALANCE SHEET - - - - -	106
 STATEMENTS FOR MUNICIPALITIES RECEIVING POWER UNDER COST CONTRACTS:	
SOUTHERN ONTARIO SYSTEM, EMBRACING THE NIAGARA, GEORGIAN BAY AND EASTERN ONTARIO DIVISIONS - - - - -	122
THUNDER BAY SYSTEM - - - - -	160
 NORTHERN ONTARIO PROPEETIES:	
BALANCE SHEET - - - - -	164
OPERATING ACCOUNT - - - - -	166
SCHEDULES SUPPORTING THE BALANCE SHEET - - - - -	168
THE HAMILTON STREET RAILWAY COMPANY - - - - -	173
 X. MUNICIPAL ACCOUNTS AND STATISTICAL DATA:	
EXPLANATORY STATEMENT - - - - -	177
CONSOLIDATED BALANCE SHEET - - - - -	180
CONSOLIDATED OPERATING REPORT - - - - -	182
STATEMENT A—BALANCE SHEETS - - - - -	184
STATEMENT B—DETAILED OPERATING REPORTS - - - - -	236
STATEMENT C—RESPECTING STREET LIGHTS - - - - -	288
STATEMENT D—COMPARATIVE REVENUE, CONSUMPTION, NUMBER OF CON- SUMERS, AVERAGE MONTHLY BILL, NET COST PER KILOWATT-HOUR, ETC. - - -	290
STATEMENT E—COST OF POWER TO MUNICIPALITIES AND RATES TO CONSUMERS FOR DOMESTIC, COMMERCIAL LIGHTING AND POWER SERVICE - - - - -	308
 APPENDIX I—ACTS - - - - -	327
APPENDIX II—GENERATING STATIONS OPERATED BY THE COMMISSION - - - - -	333
 INDEX - - - - -	351

## ILLUSTRATIONS

	PAGE
LOOKING FORWARD—FALLS ON AGUASABON RIVER	Frontispiece
 CONSTRUCTION:	
TIMBER FORM WORK FOR DAM IN EASTERN ONTARIO	xvii
DINING ROOM OF A CONSTRUCTION CAMP	xviii
 CO-ORDINATION OF POWER SUPPLIES AND LOCAL DEMANDS:	
CONTROL ROOM AT CHATS FALLS GENERATING STATION	xviii
CARRIER EQUIPMENT AT CHATS FALLS	xviii
NETWORK CALCULATOR AT HEAD OFFICE	xviii
UNWATERING STEEP ROCK LAKE—three views	xix
 ACCIDENT PREVENTION AND SAFETY ENGINEERING:	
SAFE UNLOADING OF A CAR OF POLES—two views	xxx
STRINGING POWER CONDUCTORS WITH CATERPILLAR TRACTORS IN NORTHERN ONTARIO	xxxi
CONSTRUCTION OF REMEDIAL WEIR AT NIAGARA	xxxi
CONSERVATION—SHAND DAM, GRAND RIVER VALLEY	xxxii
GRAIN STORAGE ELEVATOR—AN IMPORTANT HYDRO LOAD	xxxii
NEW PUBLIC SCHOOL, MADAWASKA—REPLACING SCHOOL ON AREA FLOODED BY RESERVOIR	13
 RURAL ELECTRICAL SERVICE:	
HYDRO POWER CUTS FIREWOOD FOR THE FARM	53
MILK COOLING BY ELECTRICAL REFRIGERATION	54
ELECTRIC MILKING IN RURAL ONTARIO	55
ELECTRIC BROODER	56
 HYDRAULIC ENGINEERING:	
HOWELL-BUNGER DISPERSAL VALVE AT DECEW FALLS	67
ALEXANDER POWER DEVELOPMENT COFFER DAM FOR UNIT No. 4	69
 ELECTRICAL ENGINEERING:	
BURLINGTON TRANSFORMER STATION SWITCHYARD AT NIGHT	73
BURLINGTON TRANSFORMER STATION CONTROL BUILDING	74
BURLINGTON TRANSFOEMER STATION CONTROL ROOM	75
STRUCTURE SUPPORTING HEAVY DISTRIBUTION SERVICE, NIAGARA DISTRICT	76
TRACTOR EQUIPPED FOR POLE REMOVALS	77
 THE LABORATORIES:	
SCALE MODEL FOR SCHOOL LIGHTING STUDIES	87
SERVICE VOLTAGE TESTER	89
CHEMICAL LABORATORY	91
INSPECTION OF HOLLOW SHAFTS BY THE BOROSCOPE	92

## DIAGRAMS

	PAGE
THIRTY YEARS RECORD—CAPITAL INVESTMENT AND RESERVES, ALL SYSTEMS	3
THIRTY-YEARS RECORD—PROVINCIAL ADVANCES AND FUNDED DEBT	5
THIRTY YEARS RECORD—POWER RESOURCES AND LOADS, SOUTHERN ONTARIO SYSTEM	7
THIRTY YEARS RECORD—ASSETS AND LIABILITIES OF “HYDRO” UTILITIES	8
THIRTY YEARS RECORD—REVENUES OF “HYDRO” UTILITIES	9
ALL SYSTEMS COMBINED—PEAK LOADS, 1930 to 1944	18
SOUTHERN ONTARIO SYSTEM—PEAK LOADS, 1910 to 1944	19
THUNDER BAY SYSTEM—PEAK LOADS, 1920 to 1934	28

### NORTHERN ONTARIO PROPERTIES:

ABITIBI DISTRICT—PEAK LOADS, 1931 to 1944	30
SUDSBURY DISTRICT— PEAK LOADS, 1930 to 1944	31
NIPISSING DISTRICT—PEAK LOADS, 1920 to 1944	32
PATRICIA DISTRICT—PEAK LOADS, 1930 to 1944	33

### RURAL POWER DISTRICTS:

MILEAGE OF PRIMARY LINES APPROVED, 1921 to 1944	46
AGGREGATE PEAK LOADS, 1921 to 1944	47
COST OF ELECTRICAL SERVICE IN MUNICIPALITIES SERVED BY THE HYDRO-ELECTRIC POWER COMMISSION	291

## MAPS

TRANSMISSION LINES AND STATIONS OF THE SOUTHERN ONTARIO SYSTEM At end of volume  
 TRANSMISSION LINES AND STATIONS OF THE NORTHERN ONTARIO PROPERTIES At end of volume

THIRTY-SEVENTH ANNUAL REPORT  
OF  
**The Hydro-Electric Power Commission  
of Ontario**

**FOREWORD**  
and  
**Guide to the Report**

THE Hydro-Electric Power Commission of Ontario administers a co-operative municipal-ownership enterprise, supplying power throughout the Province of Ontario. The Commission was created in 1906 by special act of the Legislature and followed investigations by advisory commissions appointed as a result of public agitation to conserve the water powers of Ontario as a valuable asset of the people and to provide a more satisfactory supply of low-cost power in southern Ontario. In 1907 the Power Commission Act (7-Edward VII Ch. 19) was passed amplifying and extending the Act of 1906, and this Act—modified by numerous amending acts which now form part of the Revised Statutes of Ontario, 1937, Chap. 62, and subsequent amending Acts—constitutes the authority under which the Commission operates.

The Hydro-Electric Power Commission of Ontario consists of a Chairman and two Commissioners, all of whom are appointed by the Lieutenant-Governor-in-Council to hold office during pleasure. One of the Commissioners must be a member of the Executive Council and two may be members.

In 1909, work was commenced on a comprehensive transmission system and by the end of 1910 power was being supplied to several municipalities.

The Commission has now been supplying electrical energy for more than thirty-four years and the Report contains diagrams depicting the growth of the enterprise. During this period the costs of electricity to the consumer have been substantially reduced and the finances of the enterprise have been established on a secure foundation.

At the end of 1944 the Commission was serving 904 municipalities in Ontario. This number included 26 cities, 106 towns, 305 villages and police villages and 467 townships. With the exception of 14 suburban sections of townships known as "voted areas," the townships and 121 of the smaller villages are now served as an amalgamated rural division of Hydro service with a uniform rate structure. Thus, no matter where rural service is given in Ontario by the Hydro, the rural consumer for the same class of service with the same consumption of electricity, pays the same amount on his quarterly bill.

**Financial Features of Co-operative Systems**

The basic principle governing the financial operations of the undertaking is, that electrical service be given by the Commission to the municipalities

and by the municipalities to the ultimate consumers at cost. Cost includes not only all operating and maintenance charges, interest on capital investment and reserve for renewals or depreciation, for obsolescence and contingencies, and for stabilization of rates, but also a reserve for sinking fund or capital payments on debentures.

The undertaking from its inception has been entirely self-supporting and no contributions have been made from general taxes except in connection with service in rural power districts. In this case, the Province, in pursuance of its long established policy of assisting agriculture and with the approval of the urban citizens, assists extension of rural electrical service by a grant-in-aid of the capital cost and in other ways as specified and detailed in the Report.

As the principle of "service at cost" is radically different from that obtaining in private organizations, where profit is the governing feature, it naturally results in different and in some ways unique administrative features.

The undertaking as a whole involves two distinct phases of operations as follows:

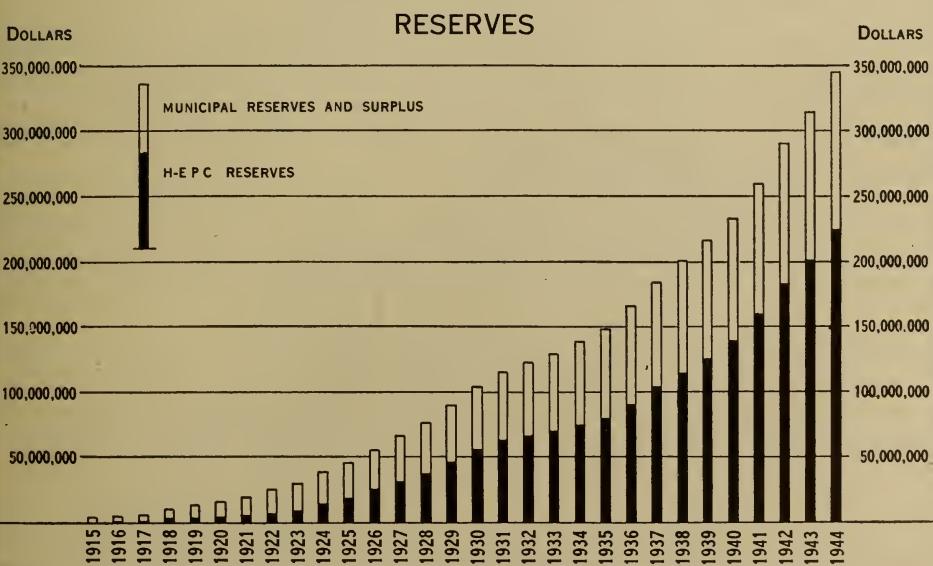
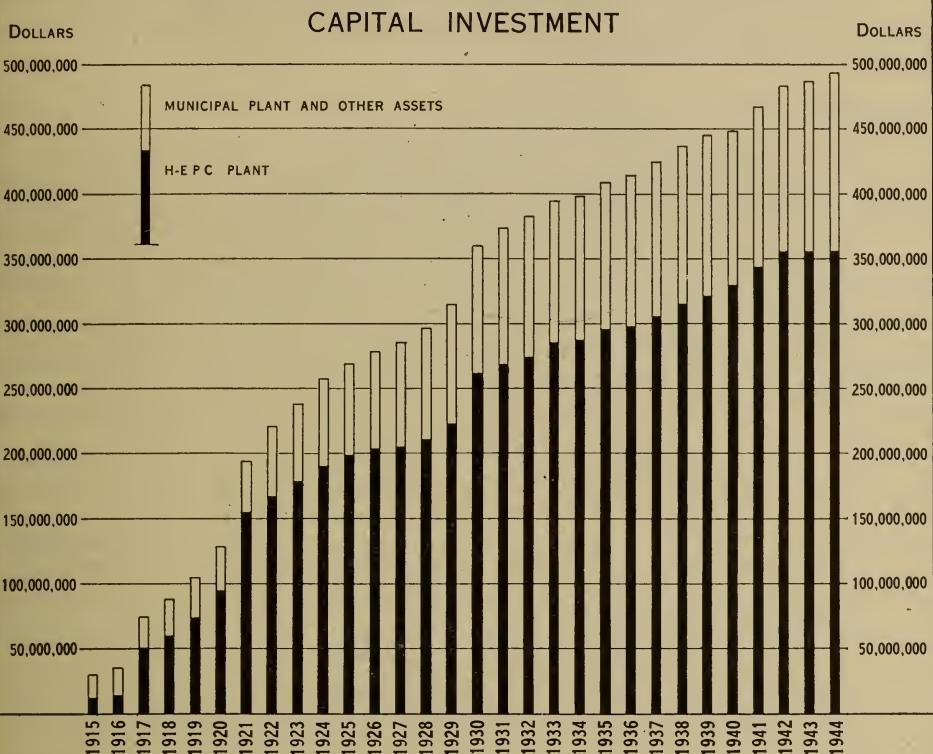
The *First* phase of operations is the provision of the electrical power—either by generation or purchase—and its transformation, transmission and delivery in *wholesale* quantities to individual municipal utilities, to large industrial consumers, and to rural power districts. This phase of the operations is performed by The Hydro-Electric Power Commission of Ontario as trustee for the municipalities acting collectively in groups or "systems", and the financial statements relating to these collective activities of the municipalities are presented in Section IX of the Report. Each system of municipalities, as provided in *The Power Commission Act*, forms an independent financial unit and the accounts are therefore segregated and separately presented for each system. In order, however, that there may be a comprehensive presentation of the co-operative activities of the undertaking as a whole, there are presented, in addition, for the two main systems and miscellaneous co-operative activities, a balance sheet of assets and liabilities, a statement of operations, a tabulation of fixed assets, and summary combined statements respecting the various reserves.

The *Second* phase of operations is the *retail* distribution of electrical energy to consumers, within the limits of the areas served by the various municipal utilities and throughout the rural areas of the Province. In the case of the consolidated rural power districts The Hydro-Electric Power Commission not only provides the power at wholesale, but also—on behalf of the respective individual townships—attends to all physical and financial operations connected with the distribution of energy at retail to the consumers within the rural power districts. Summary financial statements relating to rural service are presented in Section IX of the Report, and a general report on their operation is given in Section IV.

In the case of cities, towns, many villages and certain thickly populated areas of townships, retail distribution of electrical energy provided by the Commission is in general conducted by individual local municipal utility commissions under the general supervision of The Hydro-Electric Power Commission of Ontario. The balance sheets, operating reports and statistical data relating to the individual urban electrical utilities are presented in Section X of the Report.

## THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

## THIRTY YEARS RECORD—ALL SYSTEMS



For the Northern Ontario Properties held and operated by the Commission in trust for the Province there are also presented in Section IX financial statements including a balance sheet, an operating account, and statements respecting reserves and capital expenditures.

Further details respecting administration and explanations of the financial tables presented in the Report are given in the introductions to sections IX and X on pages 95 and 177.

#### Co-operative Systems Operating

From time to time in accordance with provisions of *The Power Commission Act* various groups of municipalities have been co-ordinated to form systems for the purpose of obtaining power supplies from convenient sources. In some cases these small systems grew until their transmission lines interlocked with those of adjacent systems and it proved beneficial to consolidate the transmission networks and the financial and administrative features. Early in 1944 the three systems serving southern Ontario, the Niagara, Georgian Bay and Eastern Ontario systems, were amalgamated to form the *Southern Ontario system* and financially the amalgamation was made retroactive to apply to the fiscal year 1942-3. The three former systems are now known as *divisions* of the Southern Ontario system.

*The Niagara division* embraces municipalities in all the territory between Niagara Falls, Hamilton and Toronto on the east and Windsor, Sarnia and Goderich on the west. It is served with 25-cycle power supplied from plants on the Niagara river, supplemented with power transmitted from generating plants on the Ottawa river and with power purchased from Quebec companies.

*The Georgian Bay division* comprises municipalities in that part of the Province which surrounds the southern end of Georgian Bay and lies to the north of the territory served by the Niagara division. It includes the districts surrounding lake Simcoe and extends as far north as Huntsville in the Lake of Bays district and south to Port Perry. Its power supplies, 60 cycles, are derived chiefly from local water power developments.

*The Eastern Ontario division* serves all of Ontario east of the areas comprising the Georgian Bay and the Niagara divisions. It includes the districts of Central Ontario, St. Lawrence, Rideau, Ottawa and Madawaska; formerly separate systems. Its power supplies, 60 cycles, are from local developments supplemented by purchases from other sources.

*The Thunder Bay System* comprises the cities of Port Arthur and Fort William, adjacent rural sections, the village of Nipigon, and the mining district of Longlac. Two developments on the Nipigon river supply 60-cycle power.

#### Northern Ontario Properties

In addition to its operations on behalf of the partner municipalities, the Commission, under an agreement with the Province, holds and operates the Northern Ontario Properties in trust for the Province. For the purposes of financial administration these properties are treated as one unit. The principal areas in the vast territory of northern Ontario at present receiving service are the *Abitibi District* comprising the territory served by 25-cycle power from the Abitibi Canyon development, together with a small area in

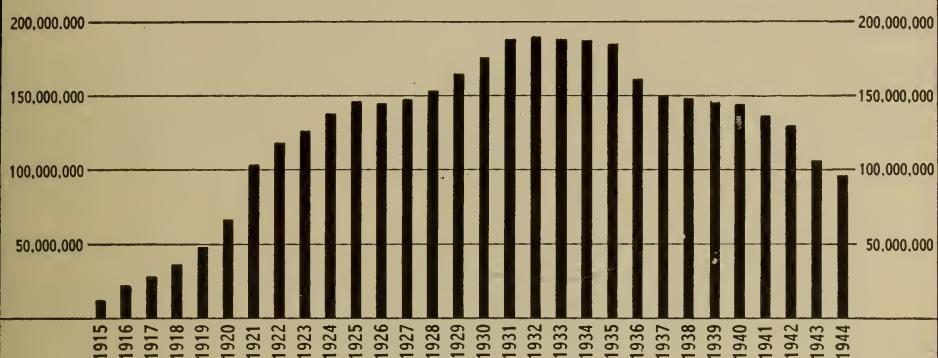
## THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

## PROVINCIAL ADVANCES AND FUNDED DEBT

DOLLARS

## PROVINCIAL ADVANCES

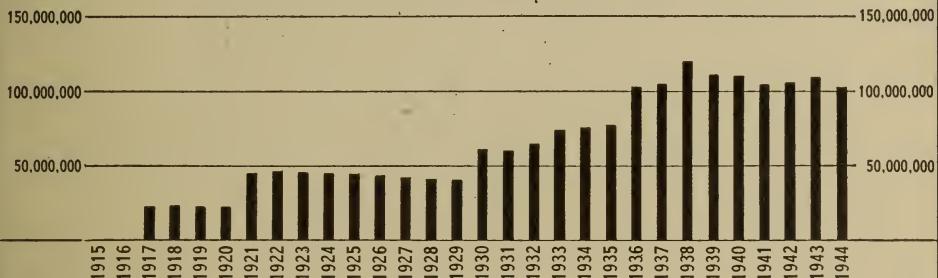
DOLLARS



DOLLARS

## FUNDED DEBT IN HANDS OF PUBLIC

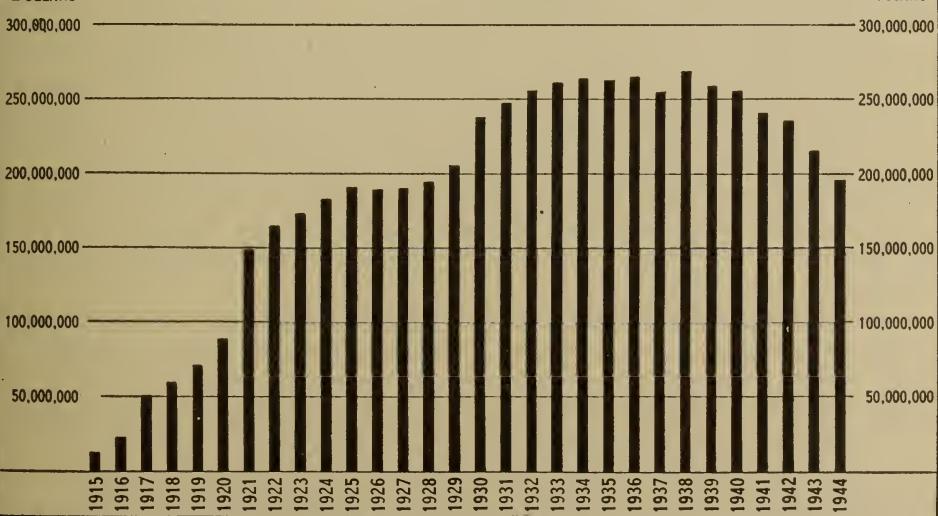
DOLLARS



DOLLARS

## TOTAL OUTSTANDING CAPITAL LIABILITIES

DOLLARS



the southern portion of the district of Sudbury in which mining properties are served with 60-cycle power; the *Sudbury District* comprising the city of Sudbury and the adjoining mining area known as Sudbury Basin; the *Nipissing District* centering around the city of North Bay on the shore of lake Nipissing; the *Patricia District* comprising the territory within transmission distance from the Ear Falls development at the outlet of lac Seul on the English river including the Red Lake mining area, and the territory immediately north of lake St. Joseph in the territorial district of Patricia served with power from a development at Rat Rapids on the Albany river; and the *Rainy River district* which derives its power from the Thunder Bay system. Included in the Northern Ontario Properties are rural districts on Manitoulin island, and others adjacent to the communities served in the various districts of northern Ontario. Power supplies are 60 cycle except from Abitibi canyon development.

The geographic boundaries of the various systems and districts are shown on the maps of transmission lines and stations at the back of the Report.

The power supplies for the systems and Northern Ontario districts are listed in the first table of Section II of the Report on pages 16 and 17.

#### The Annual Report

The table of contents, pages xxxiii and xxxiv lists the matters dealt with in the Report. At the end of the Report there is a comprehensive index. To those not conversant with the Commission's Reports, the following notes will be useful.

In Section II, pages 15 to 35, dealing with the operations of the systems, are a number of diagrams showing graphically the monthly loads on the several systems and districts. Tables are also presented showing the amounts of power taken by the various municipalities during the past two years.

The rural distribution work of the Commission has proved of widespread interest and special reference to this is made in Section IV on pages 45 to 62.

In Sections VI and VII will be found information respecting progress of work on new power developments and on transmission system extensions, together with photographic illustrations.

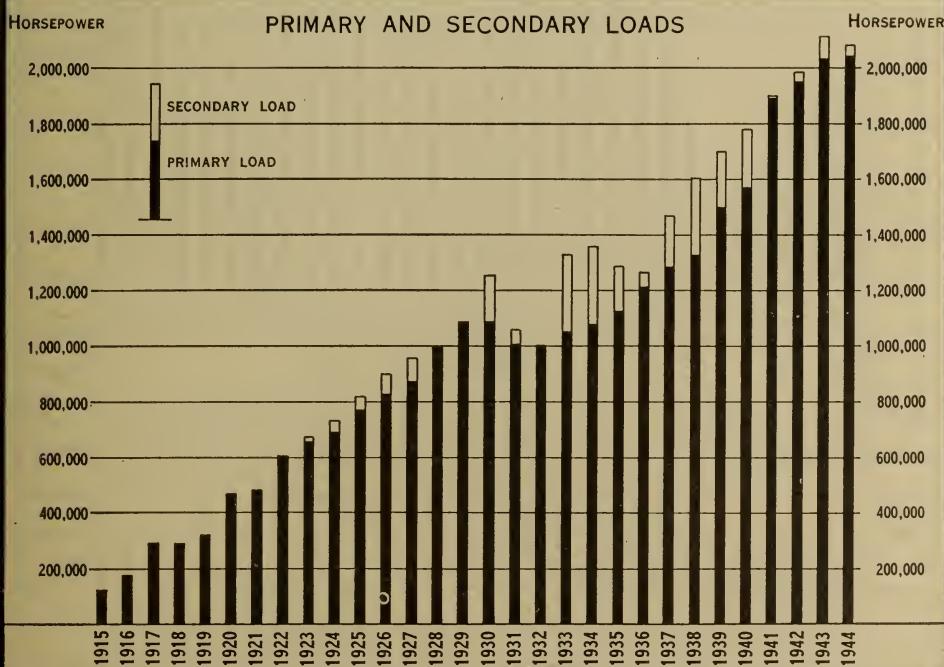
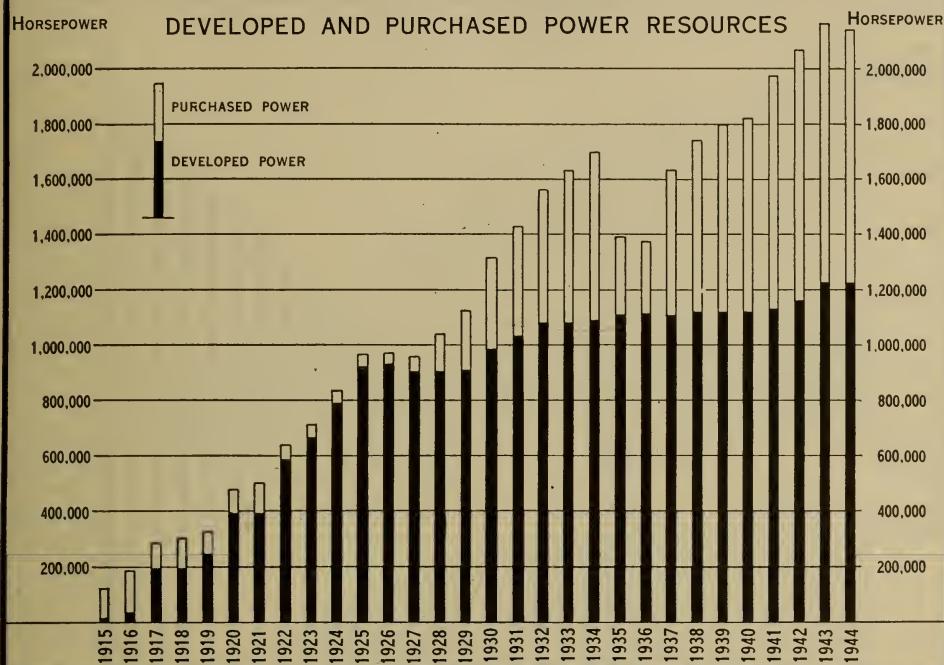
About one-half of the Report is devoted to financial and other statistical data which are presented in two sections IX and X already referred to above.

Frequent enquiries for the rates for service to consumers are received by the Commission. For the urban municipalities served by the Commission these are given in Statement "E" starting on page 310. For the rural power districts they are given in Section IV on page 49. Certain statistical data resulting from the application of the rates in urban utilities are given in Statement "D". This statement is prefaced by a special introduction starting on page 290.

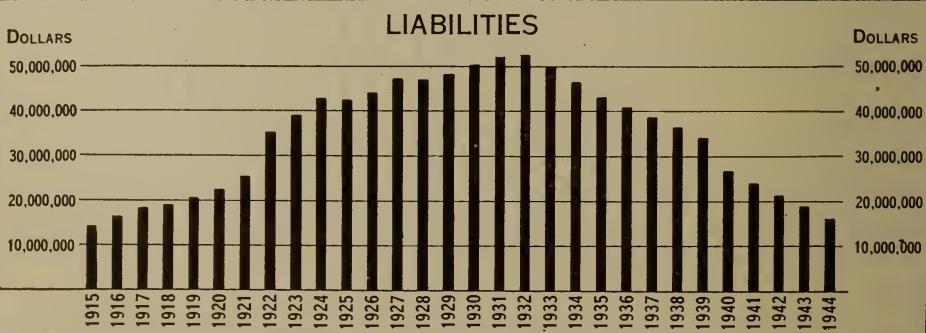
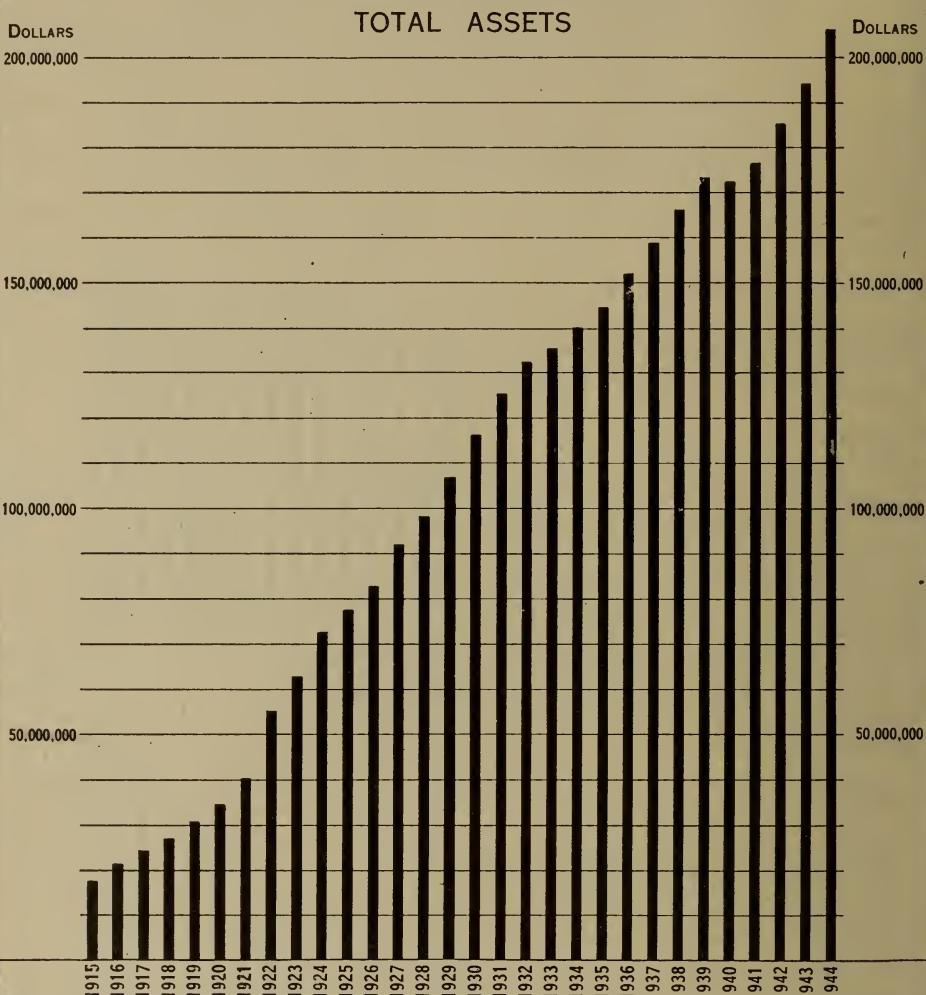
In its Annual Reports the Commission aims to present a comprehensive statement respecting the activities of the whole undertaking under its administration. Explanatory statements are suitably placed throughout the Report. The Commission receives many letters asking for general information respecting its activities, as well as requests for specific information concerning certain phases of its operations. In most cases the enquiries can satisfactorily be answered by simply directing attention to information presented in the Annual Report.

## THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

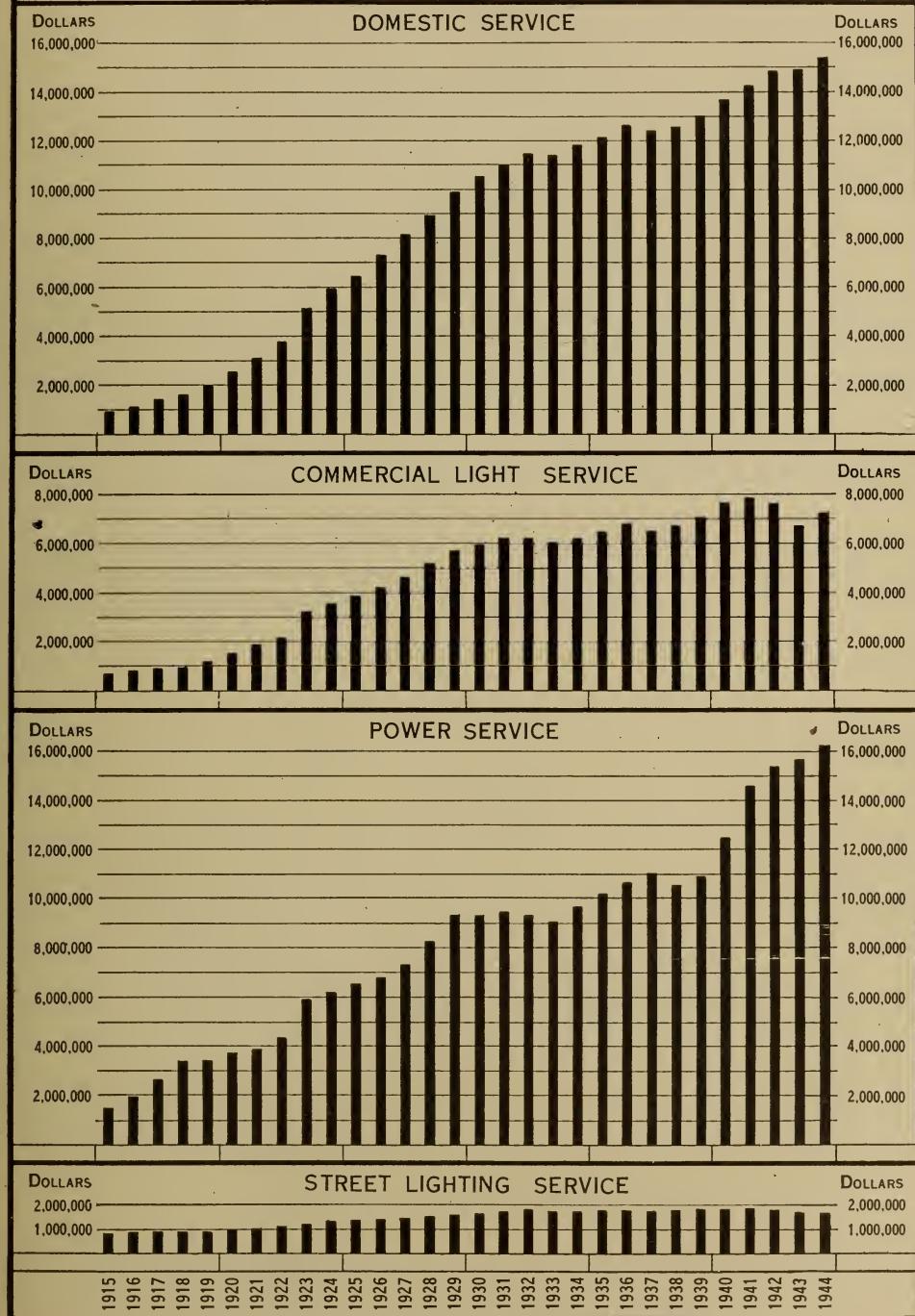
## THIRTY YEARS RECORD—SOUTHERN ONTARIO SYSTEM



THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO  
**HYDRO UTILITIES OF CO-OPERATING URBAN MUNICIPALITIES**  
**THIRTY YEARS RECORD**



THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO  
HYDRO UTILITIES OF CO-OPERATING URBAN MUNICIPALITIES  
THIRTY YEARS REVENUES





## SECTION I

### LEGAL

**A**T the 1944 Session of the Legislative Assembly of the Province of Ontario two Acts respecting The Hydro-Electric Power Commission of Ontario were passed. The said Acts are reproduced in full in Appendix I of this Report. The short titles of the Acts are as follows:

The Power Commission Amendment Act 1944, Chapter 46.

The Rural Power District Service Charge Amendment Act 1944, Chapter 55.

The agreements between The Hydro-Electric Power Commission of Ontario and municipalities, persons and corporations mentioned in the list hereunder given were approved by Orders-in-Council.

#### CO-OPERATIVE SYSTEMS

##### TOWNS

Almonte .....	Sept. 26, 1944
Renfrew.....	Oct. 17, 1944

##### CORPORATIONS

Alliance Paper Mills Limited .....	Mar. 30, 1944
Atlas Steels Limited .....	June 30, 1942
Canadian Industrial Alcohol Company Limited .....	July 26, 1943
Canadian Industries Limited .....	Feb. 17, 1944
Central Aircraft Manufacturing Company Limited .....	Nov. 8, 1944
Chem-Ore Mines Limited .....	Nov. 17, 1944
His Majesty The King, represented by the Minister of Munitions and Supply, acting through Polymer Corporation Limited .....	Mar. 20, 1944
His Majesty The King, represented by the Minister of Munitions and Supply .....	Mar. 20, 1944
His Majesty The King, represented by the Minister of National Defence for Air .....	Mar. 30, 1944
Howard Smith Paper Mills Limited .....	Aug. 15, 1944
Lahti, John Larry .....	Sept. 26, 1944
Lionite Abrasives Limited .....	July 2, 1943
Maple Leaf Milling Company Limited .....	Jan. 20, 1944
Robin Hood Flour Mills Limited .....	July 5, 1944
Union Gas Company of Canada Limited .....	Dec. 5, 1944

#### NORTHERN ONTARIO PROPERTIES

Cochenour-Willans Gold Mines Limited .....	Dec. 21, 1943
Dryden Paper Company Limited .....	Dec. 17, 1943
Hollinger Consolidated Gold Mines Limited .....	July 18, 1944
Pickle Crow Gold Mines Limited .....	Oct. 27, 1944

## RIGHT-OF-WAY AND PROPERTY

Urgent war demands for more industrial power, and some extensions to rural service made possible by partial removal of wartime restrictions, required additional distribution facilities for which lands were purchased and easement rights secured.

### SOUTHERN ONTARIO SYSTEM

Renewal of easement and tree trimming rights, expiring in the years 1939 to 1944, was continued and easement and tree trimming rights were secured for extensions to rural lines.

To provide better and more centralized office space for increased business, particularly in rural districts, the Commission has purchased a number of buildings and as far as possible is bringing them up to a suitable standard. Where purchase was not feasible, leases of some rural offices were arranged. In some cases provision was made for use of storage and garage facilities.

In order that these purchased or leased buildings may clearly be recognized as Hydro offices the Commission has adopted a standard lettering incorporating the full name of the Commission—"The Hydro-Electric Power Commission of Ontario," the Commission's coat of arms, and the appropriate office concerned—Rural Office, Operating Department, Electrical Inspection Office.

#### Niagara Division

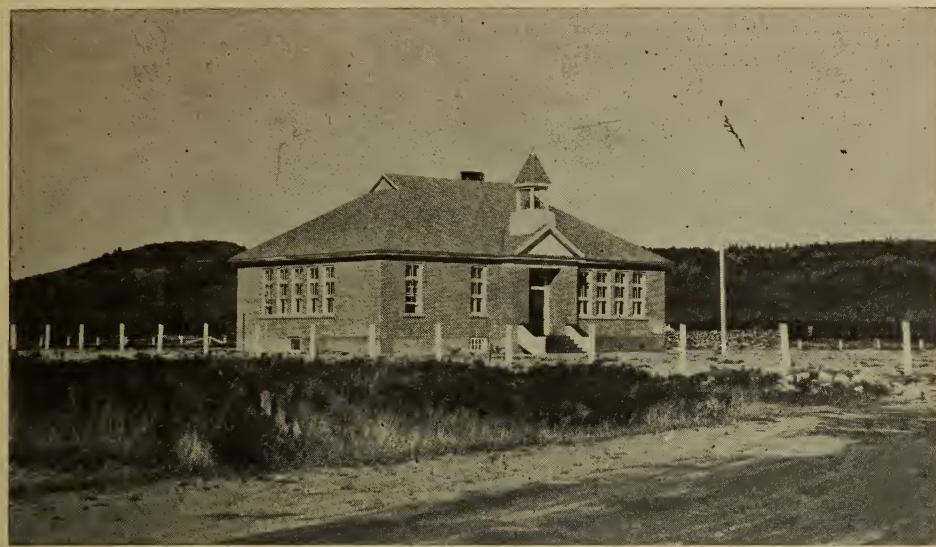
In connection with the 25-cycle development at DeCew Falls, further progress was made in the acquisition of properties. Agreements for rights for disposal of excavated material were also negotiated.

After a dispute of some forty year's standing agreement respecting the boundary between properties of the Department of Transport and properties acquired by the Commission in the purchase of the original DeCew Falls plant was finally reached. Monuments were erected to define the limits agreed upon.

Many damage claims were settled in connection with the removal of towers and conductors of the original line constructed in 1909 from Allanburg to Dundas.

In connection with right-of-way from DeCew Falls generating station to St. John's Valley junction and between York transformer station and Cooksville transformer station further strips or parcels of land were purchased. For the tower line from St. Thomas to Windsor the purchase of right-of-way was completed.

In London a site formerly owned by the London Electric Company was sold.



NEW PUBLIC SCHOOL—MADAWASKA

Erected by Commission to replace school on area flooded by Bark lake dam and reservoir

Additional agreements relating to the patrol road paralleling the Gatineau tower lines from Fitzroy township to the village of Madoc were secured.

Possible tie line routes between York station and the 220-kv Beauharnois tie line were investigated.

Certain fencing was erected or repaired on the twin wood-pole line from Lievre junction to Cyrville junction.

Further settlements respecting easements for the twin wood-pole 110-kv line from Chats Falls switching station to Merivale Road junction were made.

#### Georgian Bay Division

The long standing claim for damage due to alteration of water level in 1927 at Hollow lake was settled.

The purchase of the site occupied by the dam at Baysville, which controls the level of Lake of Bays, was completed.

#### Eastern Ontario Division

The former Canadian National Railways' right-of-way from Colborne to Port Hope was acquired. Portions of this right-of-way outside the urban centres were for the most part sold to abutting owners subject to perpetual rights for transmission lines.

Easement and tree clearing rights were secured for a 110-kv line westerly from Haleys switching station to Chalk River. Lengthy negotiations with the Government authorities concerned were required to secure perpetual rights to cross the Petawawa Military Reserve.

Some claims for damage resulting from the raising of water in Kaminiskeg lake were settled.

The prolonged work of relocation of buildings at Madawaska and settlement of damage claims there, were completed.

### THUNDER BAY SYSTEM

The distributing station site at Geraldton was enlarged by the purchase of an adjacent lot.

Further easement and tree clearing rights on two transmission lines between Cameron Falls and Port Arthur were procured.

Rights were secured for one mile of transmission line to Tombill Gold Mines Limited.

### NORTHERN ONTARIO PROPERTIES

To facilitate the extension and administration of rural service, office buildings were secured and improved at Sudbury, Matheson and Matachewan. At Matheson a four-stall garage was constructed.

#### **Surveys**

Surveys were made for all properties acquired and sold during the year and for easement and other rights, both new and in renewal; 82 standard monuments were placed.

#### **General**

Assessments and tax bills from 315 municipalities and school sections were certified and where necessary, appeals were entered against assessments not in accordance with The Power Commission Act.

Letters were written to 239 taxing authorities in the Province drawing attention to the fact that under The Assessment Act they are entitled to assess and tax residences occupied by employees, and for business, lands upon which business is being conducted. This was done to bring all properties under the provisions of The Power Commission and Assessment Acts.

During the year 113.43 acres of land were acquired and 167.43 acres of surplus land were sold. These purchases and sales involved 153 transactions.

Systematic efforts were continued to lease all available lands for agricultural or other purposes and all associated buildings have been well maintained. Revenue from leased properties increased substantially.

217 new plans were made for the Title Record Books with the necessary corrections and indexing to bring the records up to date and also endorsements on the Title Record Plans to show the progress of all new rights obtained during the year.

In all, 1,051 documents were recorded during the year.

## SECTION II

### OPERATION OF THE SYSTEMS

ALL generating equipment was used to the greatest extent possible and maximum use was made of all purchased power sources. No major failures occurred and service in all areas was maintained at a high level. At the Toronto Power plant the units which failed in 1943 and reduced the output of that plant by some 70,000 horsepower were repaired, the last of the damaged units being returned to service on December 4, 1944. No trouble from ice runs was experienced during the winter of 1943-4. On May 12, 1944, an additional diversion of 4,000 cubic feet per second was made available for power purposes on the Niagara river.

Transformer and transmission equipment gave good service. Although electrical storms were rather numerous during the summer, comparatively little damage to equipment was suffered, except on two occasions when fires directly due to lightning caused considerable damage to switching equipment in the transformer station at the Ontario Power plant.

#### Amalgamation of Systems

Early in the year, the Niagara, Georgian Bay and Eastern Ontario systems were amalgamated to form the Southern Ontario system. The amalgamation was made retroactive to November 1, 1942, and consequently alters certain load statistics formerly published. As a result of the amalgamation, the maximum coincident peak of the Niagara, Georgian Bay and Eastern Ontario divisions has become the maximum peak of the Southern Ontario system. The coincident peak for Southern Ontario is less than the sum of the individual divisions' peaks because of the difference in time at which maximum demands occur. These facts have to be noted in making comparisons with load figures of the previous year.

#### Load Conditions, November 1, 1943, to October 31, 1944—All Systems

War production reached its peak output in the spring of 1944. In the following summer, declining trends in primary power demands became apparent and on October 1, 1944, the Dominion Power Controller rescinded Orders PC-B PC-C and PC-5 which had restricted the use of power for certain specified purposes since September 1942. Contrary to expectations, the lifting of these restrictions did not result in any immediate increase in

## TOTAL POWER GENERATED

## HYDRO-ELECTRIC GENERATING PLANTS

Generating plants	Maximum normal plant capacity Oct. 31, 1944 horsepower	Peak load during fiscal year		Total output during fiscal year	
		1942-43 horse-power	1943-44 horse-power	1942-43 kilowatt-hours	1943-44 kilowatt-hours.
<b>SOUTHERN ONTARIO SYSTEM</b>					
<b>Niagara division</b>					
Queenston-Chippawa—Niagara river.....	500,000	498,660	506,702	2,808,579,000	2,832,963,000
“Ontario Power”—Niagara river.....	180,000	183,646	182,306	1,098,960,200	1,082,090,300
“Toronto Power”—Niagara river.....	150,000	144,504	139,142	691,185,200	723,260,300
Chats Falls (Ontario half)—Ottawa river.....	108,000	114,611	115,952	337,407,830	345,895,600
DeCew Falls (25 cycle)—Welland canal..	67,000	70,375	69,973	21,199,000	411,368,000
DeCew Falls (66½ cycle)—Welland canal	50,000	51,609	51,609	179,182,000	197,867,000
<b>Georgian Bay division</b>					
Big Eddy—Muskoka river.....	9,500	10,556	10,556	42,159,990	31,718,080
Ragged Rapids—Muskoka river.....	10,000	11,260	11,059	47,053,030	34,692,730
Bala No. 1 and No. 2—Muskoka river.....	600	556	536	1,534,400	1,705,200
South Falls—South Muskoka river.....	5,600	6,032	5,630	30,109,650	29,098,725
Hanna Chute—South Muskoka river.....	1,600	1,877	1,743	9,983,700	7,786,700
Trethewey Falls—South Muskoka river..	2,300	2,279	2,279	11,738,400	10,008,000
Big Chute—Severn river.....	5,800	5,952	5,871	29,600,800	26,130,000
Wasdells Falls—Severn river.....	1,200	1,086	1,106	2,618,830	3,579,504
Eugenia Falls—Beaver river.....	7,500	7,614	7,507	27,913,000	13,139,200
Hanover—Saugeen river.....	400	389	422	466,464	859,248
Walkerton—Saugeen river.....	500	483	489	2,535,900	2,098,600
<b>Eastern Ontario division</b>					
Sidney—Dam No. 2—Trent river.....	4,500	5,643	5,161	24,553,500	19,683,300
Frankford—Dam No. 5—Trent river.....	3,500	3,881	4,182	18,516,200	16,455,250
Sills Island—Dam No. 6—Trent river.....	2,100	2,272	2,252	10,872,720	11,720,040
Meyersburg—Dam No. 8—Trent river....	7,000	7,842	7,755	41,404,240	36,700,700
Hague's Reach—Dam No. 9—Trent river	4,500	5,027	5,060	24,995,240	22,646,200
Ranney Falls—Dam No. 10—Trent river.	11,500	11,944	12,024	61,753,600	53,527,320
Seymour—Dam No. 11—Trent river.....	4,200	4,357	4,491	21,184,800	19,678,560
Heely Falls—Dam No. 14—Trent river..	15,300	15,985	16,186	78,146,420	67,665,820
Auburn—Dam No. 18—Trent river.....	2,400	2,661	2,547	12,620,280	10,825,230
Douro—Lock No. 24—Otonabee river..	0	737	0	481,800	0
Lakefield—Otonabee river.....	2,300	2,614	2,473	10,291,050	10,259,230
Young's Point—Otonabee river.....	0	603	536	2,211,050	397,600
Fenelon Falls—Dam No. 30—Sturgeon river	1,000	898	938	3,737,850	4,115,250
Galetta—Mississippi river.....	1,100	1,186	1,227	4,639,200	2,987,400
Carleton Place—Mississippi river.....	200	469	402	619,295	141,725
High Falls—Mississippi river.....	3,400	3,619	3,686	14,025,120	11,328,480
Calabogie—Madawaska river.....	6,000	6,515	6,475	25,525,340	24,231,370
Barrett Chute—Madawaska river.....	54,000	54,290	53,619	209,077,600	161,483,800
<b>THUNDER BAY SYSTEM</b>					
Cameron Falls—Nipigon river.....	73,500	74,531	75,737	360,151,300	415,204,800
Alexander—Nipigon river.....	50,000	52,547	52,279	293,448,800	279,243,800
<b>NORTHERN ONTARIO PROPERTIES</b>					
<b>Abitibi district</b>					
Abitibi Canyon—Abitibi river.....	240,000	236,193	217,158	1,037,505,500	933,214,500
<b>Sudbury district</b>					
Coniston—Wanapitei river.....	5,900	5,697	5,898	21,339,700	26,157,600
McVittie—Wanapitei river.....	3,100	3,083	3,083	17,725,290	18,087,800
Stinson—Wanapitei river.....	7,500	7,480	7,802	20,165,800	24,102,200
Crystal Falls—Sturgeon river.....	10,000	10,389	10,925	33,918,800	32,369,200
<b>Nipissing district</b>					
Nipissing—South river.....	2,100	2,232	2,192	8,533,620	6,803,380
Bingham Chute—South river.....	1,200	1,287	1,300	4,706,400	3,988,520
Elliott Chute—South river.....	1,700	1,863	1,917	3,356,400	3,400,600
<b>Patricia district</b>					
Rat Rapids—Albany river.....	1,800	2,051	2,011	8,250,100	6,592,580
Ear Falls—English river.....	15,000	10,322	11,260	40,813,120	48,460,320
Total generated.....	1,634,800	*	*	7,756,797,529	8,025,732,762

\*Because the peak loads on the various generating plants and purchased power sources usually occur at different times, the sum of the individual peak loads would not represent the sum of the peak loads on the systems. Consequently, the column headed “peak load” is not totalled.

**AND PURCHASED—ALL SYSTEMS  
POWER PURCHASED**

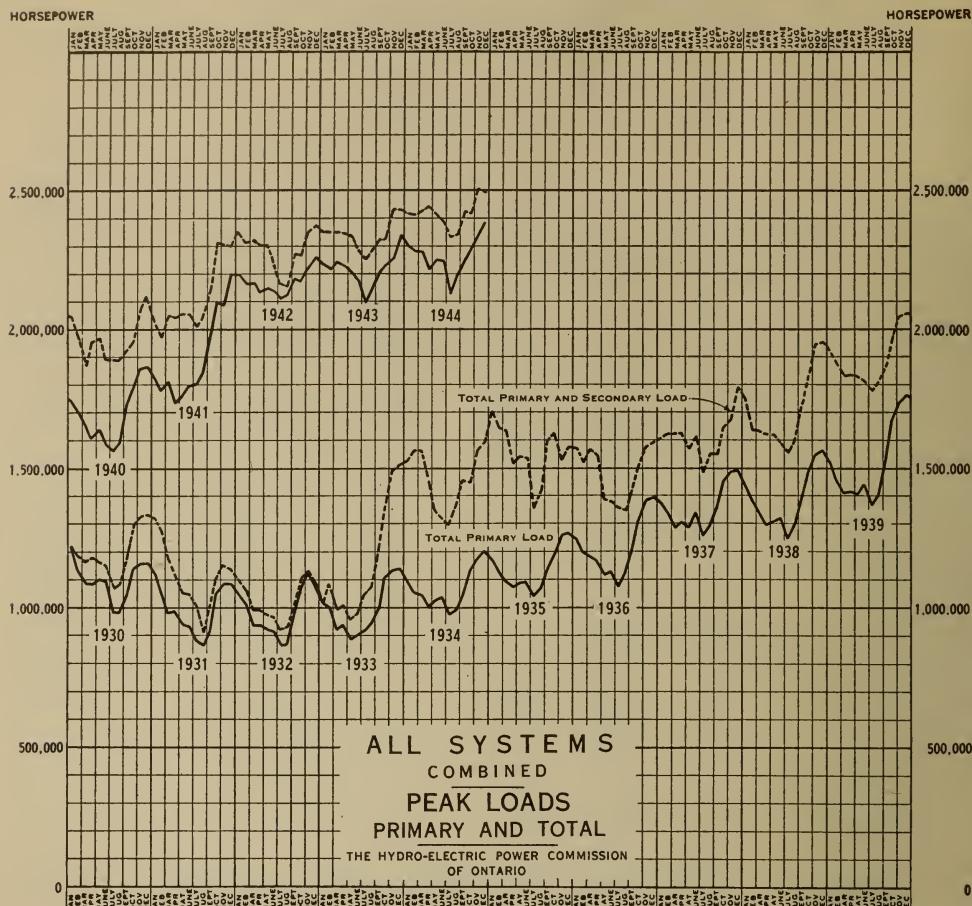
Power source	Contract amount horsepower Oct. 31, 1944	Total purchased	
		1942-43 kilowatt-hours	1943-44 kilowatt-hours
Canadian Niagara Power Co. ....	20,000	97,575,700	98,094,400
Department of Transport (Welland Ship Canal) .....	†	17,700,800	2,439,900
Gatineau Power Co.—25 cycle (Main Contract) .....	260,000		
Gatineau Power Co.—25 cycle (Temporary war purchase) .....	5,750	1,139,787,500	1,135,317,600
Ottawa Valley Power Co. ....	108,000	339,684,870	348,364,200
Beauharnois Light, Heat and Power Co. ....	250,000	1,214,604,500	1,215,950,000
MacLaren-Quebec Power Co.—“Main contract” .....	125,000		
MacLaren-Quebec Power Co.—“War power” .....	57,500	825,965,000	821,145,000
Gatineau Power Co.—60 cycle delivery at 110 kv. ....	60,000	273,962,800	275,634,700
Gatineau Power Co.—60 cycle delivery at 11 kv. ....	20,000	72,651,600	72,594,000
Gatineau Power Co.—60 cycle delivery at Treadwell .....	600	1,543,500	1,791,900
M. F. Beach Estate .....	500	2,520,400	3,000,400
Rideau Power Co. ....	400	1,887,100	1,891,400
Campbellford Water and Light Commission. ....	800	11,567,300	7,082,900
Manitoulin Pulp Co. ....	800	1,357,600	1,486,400
Huronian Co. ....	150	497,400	546,400
Pembroke Electric Light Co. Ltd. ....	400	385,900	474,140
Gananoque Light, Heat and Power Co. ....	318	642,210	753,720
Orillia Water, Light, Heat and Power Co. ....	No Contract	882,950	993,040
Abitibi Power and Paper Co. ....	“	6,422,848	5,016,768
Kaministiquia Power Co. ....	“	13,413,760	22,629,760
Fenelon Falls Light, Heat and Power Commission	“	626,400	239,600
Total purchased. ....	910,218	4,023,680,138	4,015,446,228
Power purchased, contract amount, 1944. ....		910,218	horsepower
Maximum normal plant capacity, 1944. ....		1,634,800	“
Total available capacity generated and purchased, 1944. ....		2,545,018	“
Total available capacity generated and purchased, 1943. ....		2,543,100	“
Difference (increase). ....		1,918	“
Total energy purchased, 1944. ....		4,015,446,228	kilowatt-hours
Total energy generated, 1944. ....		8,025,732,762	“
Total energy generated and purchased, 1944. ....		12,041,178,990	“
Total energy generated and purchased, 1943. ....		11,780,477,667	“
Difference (increase). ....		260,701,323	“

†Power agreement suspended May 14, 1944.

**CAUTION:** The figures for “Maximum normal plant capacity” reflect the capacity of the various plants under the most favourable operating conditions which can reasonably be considered as normal, taking into consideration turbine capacity as well as generator capacity, and also the net operating head and available water supply.

Owing, among other things, to changes in generating equipment due to wear and tear or the replacement of parts, also to changes in limitations governing water levels and effective net heads, the maximum normal plant capacity is not a fixed quantity but is one which must be revised from time to time.

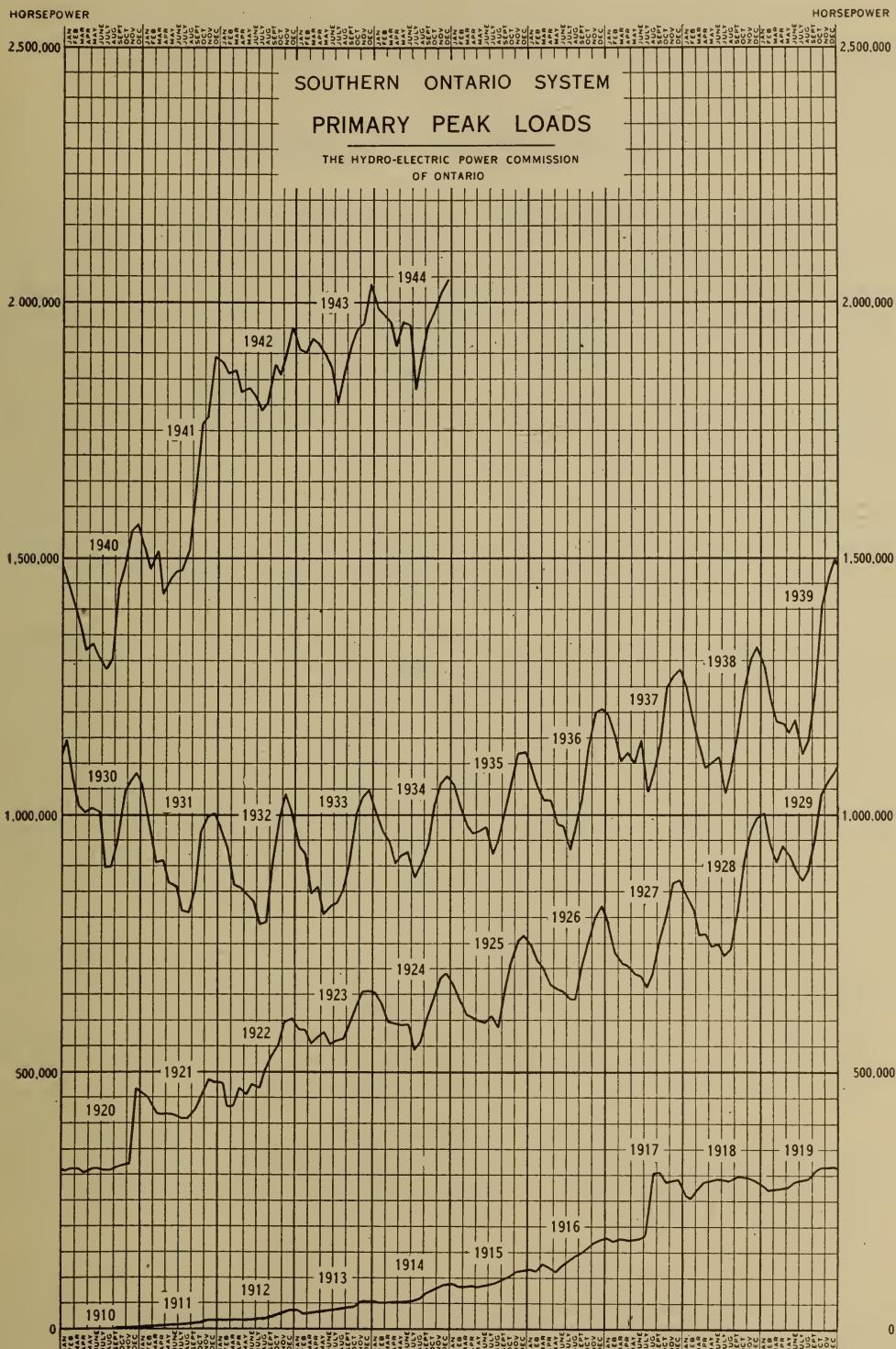
It is particularly important to bear in mind that the column headed “Maximum normal plant capacity” cannot be taken as an indication of the dependable capacity of the various plants: in some cases it is, but in many cases it is not. Chief among the factors which govern the maximum dependable capacity of an hydraulic power plant and which are not reflected in column headed “Maximum normal plant capacity” are abnormal variations in water supply and operating limitations encountered when plants are so situated on a given stream as to be affected by one another.



load. This was due chiefly to extremely mild fall weather which retarded the usual seasonal upswing at this time of the year and counteracted any increase that might otherwise have occurred.

The maximum aggregate peak load supplied by the Commission occurred in April 1944 and was 2,445,291 horsepower. This was 68,600 horsepower above the peak load of the previous year. The year's energy output was 12,041,178,990 kilowatt-hours and exceeded the previous year's output by 2.2 per cent.

Combined primary demands of all systems, as intimated earlier in this section, showed a declining trend during the year as compared with the previous year. In December 1943, the demand for primary power reached a maximum for the year and was 2,348,492 horsepower, 3.6 per cent above the corresponding demand of the previous year. In October the increase was 2.7 per cent. The year's energy output for primary power purposes receded from the previous year's record output of 10,852,987,547 kilowatt-hours to 10,787,348,600 kilowatt-hours, a decrease of 0.6 per cent.



Details regarding the peak loads of the Southern Ontario and Thunder Bay systems and of the several districts of the Northern Ontario Properties, are given in the load curves in this section of the Report.

### SOUTHERN ONTARIO SYSTEM

The year's maximum peak output on the Southern Ontario system for primary and secondary power, occurred in December 1943 and was 2,114,953 horsepower. This was approximately 120,000 horsepower above the corresponding peak of the previous year. The maximum output for primary power purposes also occurred during the month of December and was 2,033,103 horsepower, exceeding the previous December peak by 4.3 per cent. However, as the year advanced, power demands of a few of the industries engaged in the production of basic war material slackened off, with the result that near the close of the year primary demands were less than 2 per cent above those of a year ago.

The total energy output of the Southern Ontario system for primary and secondary power was 3.1 per cent greater than the output of the previous year. The output of energy classed as primary power and representing about 90 per cent of the total, dropped from 9,227,651,469 kilowatt-hours in the previous year to 9,211,310,482 kilowatt-hours, a decrease of 0.2 per cent.

No additional generation was added to the Southern Ontario system during the year. On May 12, 1944, a temporary additional 4,000 cubic feet of water per second was obtained from the Niagara river to ensure full output of all the Niagara River plants, including the DeCew Falls 25-cycle development. Water storage and stream flow on the rivers supplying the Georgian Bay and Eastern Ontario divisions of the Southern Ontario system were on the whole subnormal throughout the year. During the year, the normal flow of the Ottawa river was slightly below average. Except during the spring run-off, full use was made of the river flow in the operation of the Chats Falls plant. A portion of the excess spring flow was utilized to generate a small amount of surplus energy for export to the United States.

Under a programme of water conservation carried over from the previous year, an appreciable amount of surplus energy, available at different purchased sources, was absorbed by the Commission during the first part of the year. Due to subnormal water storage and river flow later in the year, not all of the Quebec Power companies supplying power to the Commission were able to deliver their full contract energy commitments.

From November 1, 1943, to April 27, 1944, 107,210,000 kilowatt-hours were resold to the Beauharnois Light, Heat and Power Company for use of the Aluminum Company of Canada. Assistance was also given to the Orillia Water, Light and Power Commission throughout the greater portion of the year.

To take care of rising loads, the capacity of many distributing stations was increased during the year. In most instances these were stations serving comparatively small local loads and only involved the replacement of existing transformers by ones of a higher rating.

An outstanding feature in the operation of the Southern Ontario system during the year was the creation of the power supervisors' office at Toronto. The organization of this office was completed early in the summer and since then has been operating on a 24-hour basis. The chief function of the office is to co-ordinate supply and demand in a manner to ensure the most efficient use of the system's resources and at the same time improve reliability of service.

During the year, facilities were installed for precise control of frequency of the Eastern Ontario division similar to facilities which have been in use on the Niagara division since 1934. Synchronous operation of all generators on the Southern Ontario system has thereby been established and all synchronous apparatus, such as clocks, also keep in step throughout the whole area from Ottawa to Windsor and maintain remarkably constant rate.

Parallel operation of the divisions involves regulating the amount of power generated in each division to provide for fluctuating power demands throughout the Southern Ontario system. This was accomplished by the installation of specially designed equipment for regulating the output of Chats Falls, Barrett Chute and plants of the Gatineau Power Company supplying power to the Commission. Control of these widely separated plants is exerted from Chats Falls through carrier communication channels and very satisfactory results have been obtained.

**SUMMATION OF PEAK LOADS IN HORSEPOWER AS SUPPLIED TO URBAN MUNICIPAL UTILITIES AND FOR RURAL HYDRO SERVICE, SHOWING TREND OF POWER DEMANDS 1943-1944**

System	Total of peak loads in horsepower		Net increase in horsepower	Number of utilities with			Total
	July to Dec. 1943	July to Dec. 1944		Decreases	Increases	No change	

**URBAN MUNICIPAL UTILITIES**

Southern Ontario...	1,196,606	1,266,528	69,922	45	259	3	307
Thunder Bay.....	42,604	45,306	2,702	0	5	0	5
Northern Ontario Properties.....	16,664	18,293	1,629	5	10	1	16

**RURAL HYDRO SERVICE**

Southern Ontario...	108,696	121,399	12,703	7	106	0	113
Thunder Bay.....	724	862	138	0	1	1	2
Northern Ontario Properties.....	2,690	3,001	311	0	5	0	5
Total, Rural Service	112,110	125,262	13,152	7	112	1	120

NOTE: The yearly peak demands of the individual municipal Hydro utilities do not all occur during the same month of the year nor, for any given municipality, do they always occur in the same month in successive years; in nearly all cases however the yearly peak occurs during the second half of the calendar year. For this reason a comparison of the peaks occurring during the second half of the year as shown in the tables of this Section shows most satisfactorily the general trend of the local loads. The loads given above for Rural Hydro Service are a summation of the loads in the various operational districts and are similarly obtained.

## SOUTHERN ONTARIO SYSTEM—LOADS OF MUNICIPALITIES 1943-1944

Municipality	Frequency cycles	Peak load in horsepower		Change in load	
		July to Dec., 1943	July to Dec., 1944	Decrease	Increase
Acton.....	25	1,660.8	1,730.6	.....	69.8
Agincourt.....	25	225.9	244.8	.....	18.9
Ailsa Craig.....	25	157.8	159.0	.....	1.2
Alexandria.....	60	206.5	311.1	.....	104.6
Alliston.....	60	447.4	474.9	.....	27.5
Alvinston.....	25	117.3	137.4	.....	20.1
Amherstburg.....	25	947.8	1,088.3	.....	140.5
Ancaster Twp.—Voted Area.....	25	439.4	493.8	.....	54.4
Apple Hill.....	60	56.7	55.0	1.7	.....
Arkona.....	25	59.8	72.1	.....	12.3
Arnprior.....	60	1,303.0	1,322.2	.....	19.2
Arthur.....	60	161.3	185.0	.....	23.7
Athens.....	60	138.1	129.3	8.8	.....
Aurora.....	25	1,476.5	1,443.2	33.3	.....
Aylmer.....	25	933.0	987.8	.....	54.8
Ayr.....	25	222.6	299.2	.....	76.6
Baden.....	25	544.0	673.5	.....	129.5
Bala.....	60	347.7	358.0	.....	10.3
Barrie.....	60	4,068.4	4,422.3	.....	353.9
Bath.....	60	60.0	58.0	2.0	.....
Beachville.....	25	729.7	791.7	.....	62.0
Beamserville.....	25	452.4	508.8	.....	56.4
Beaverton.....	60	372.6	340.5	32.1	.....
Beeton.....	60	180.8	157.2	23.6	.....
Belle River.....	25	207.0	210.8	.....	3.8
Belleville.....	60	7,682.1	8,236.6	.....	554.5
Blenheim.....	25	586.0	714.2	.....	128.2
Bloomfield.....	60	156.6	171.8	.....	15.2
Blyth.....	25	149.5	169.2	.....	19.7
Bolton.....	25	244.6	264.6	.....	20.0
Bothwell.....	25	129.7	147.3	.....	17.6
Bowmanville.....	60	2,993.2	3,189.1	.....	195.9
Bradford.....	60	225.7	251.3	.....	25.6
Braeside.....	60	335.8	300.2	35.6	.....
Brampton.....	25	2,706.1	2,995.6	.....	289.5
Brantford.....	25	22,302.2	23,802.9	.....	1,500.7
Brantford Twp.—Voted Area.....	25	1,259.9	1,535.0	.....	275.1
Brechin.....	60	83.8	64.3	19.5	.....
Bridgeport.....	25	157.5	168.6	.....	11.1
Brigden.....	25	93.8	93.8	.....	.....
Brighton.....	60	513.0	536.1	.....	23.1
Brockville.....	60	4,939.7	5,277.5	.....	337.8
Bronte.....	66 $\frac{2}{3}$	198.8	193.0	5.8	.....
Brussels.....	25	153.3	166.8	.....	13.5
Burford.....	25	295.2	293.4	1.8	.....
Burgessville.....	25	56.2	57.9	.....	1.7
Burlington.....	66 $\frac{2}{3}$	1,624.2	1,836.5	.....	212.3
Burlington Beach.....	66 $\frac{2}{3}$	463.2	500.7	.....	37.5
Caledonia.....	25	358.9	432.1	.....	73.2
Campbellville.....	25	42.9	53.7	.....	10.8

## SOUTHERN ONTARIO SYSTEM—LOADS OF MUNICIPALITIES 1943-1944—Continued

Municipality	Frequency cycles	Peak load in horsepower		Change in load	
		July to Dec., 1943	July to Dec., 1944	Decrease	Increase
Cannington.....	60	241.9	271.1	.....	29.2
Cardinal.....	60	384.4	422.4	.....	38.0
Carleton Place.....	60	1,974.9	2,002.5	.....	27.6
Carlsruhe.....	60	5.0	5.0	.....	.....
Cayuga.....	25	132.8	168.2	.....	35.4
Chatham.....	25	7,095.4	7,768.4	.....	673.0
Chatsworth.....	60	98.6	106.6	.....	8.0
Chesley.....	60	605.0	650.4	.....	45.4
Chesterville.....	60	300.7	338.2	.....	37.5
Chippawa.....	25	364.2	390.6	.....	26.4
Clifford.....	25	111.4	118.0	.....	6.6
Clinton.....	25	686.7	810.4	.....	123.7
Cobden.....	60	107.2	135.7	.....	28.5
Cobourg.....	60	2,294.9	2,387.9	.....	93.0
Colborne.....	60	244.2	272.5	.....	28.3
Coldwater.....	60	141.6	224.0	.....	82.4
Collingwood.....	60	2,909.2	3,056.1	.....	146.9
Comber.....	25	170.6	173.3	.....	2.7
Cookstown.....	60	107.4	111.4	.....	4.0
Cottam.....	25	85.5	92.6	.....	7.1
Courtright.....	25	52.1	57.0	.....	4.9
Creemore.....	60	158.3	163.5	.....	5.2
Dashwood.....	25	118.6	139.0	.....	20.4
Delaware.....	25	75.3	79.2	.....	3.9
Delhi.....	25	703.5	728.1	.....	24.6
Deseronto.....	60	236.1	277.2	.....	41.1
Dorchester.....	25	124.0	145.7	.....	21.7
Drayton.....	25	166.8	160.1	6.7	.....
Dresden.....	25	493.4	521.0	.....	27.6
Drumbo.....	25	115.5	126.8	.....	11.3
Dublin.....	25	71.4	62.5	8.9	.....
Dundalk.....	60	260.4	269.1	.....	8.7
Dundas.....	25	3,166.8	3,357.6	.....	190.8
Dunville.....	25	1,374.2	1,583.7	.....	209.5
Durham.....	60	433.5	580.6	.....	147.1
Dutton.....	25	263.7	279.9	.....	16.2
East York Twp.—Voted Area.....	25	9,502.9	11,001.6	.....	1,498.7
Elmira.....	25	1,304.5	1,467.8	.....	163.3
Elmvale.....	60	182.0	173.0	9.0	.....
Elmwood.....	60	69.4	76.4	.....	7.0
Elora.....	25	485.3	501.5	.....	16.2
Embro.....	25	179.2	176.3	2.9	.....
Erieau.....	25	160.2	262.7	.....	102.5
Erie Beach.....	25	33.0	40.2	.....	7.2
Essex.....	25	641.6	650.7	.....	9.1
Etobicoke Twp.—Voted Area.....	25	8,774.8	9,120.2	.....	345.4
Exeter.....	25	792.1	854.8	.....	62.7
Fergus.....	25	1,313.3	1,414.9	.....	101.6
Finch.....	60	106.8	113.5	.....	6.7
Flesherton.....	60	66.3	85.5	.....	19.2

## SOUTHERN ONTARIO SYSTEM—LOADS OF MUNICIPALITIES 1943-1944—Continued

Municipality	Frequency cycles	Peak load in horsepower		Change in load	
		July to Dec., 1943	July to Dec., 1944	Decrease	Increase
Fonthill.....	25	208.3	222.5	.....	14.2
Forest.....	25	596.5	612.2	.....	15.7
Forest Hill.....	25	7,819.0	8,344.5	.....	525.5
Frankford.....	60	177.6	180.4	.....	2.8
Galt.....	25	11,982.1	12,436.2	.....	454.1
Georgetown.....	25	1,825.9	1,944.8	.....	118.9
Glencoe.....	25	204.1	222.9	.....	18.8
Goderich.....	25	1,809.0	1,828.0	.....	19.0
Grand Valley.....	60	148.5	182.8	.....	34.3
Granton.....	25	75.5	79.7	.....	4.2
Gravenhurst.....	60	1,197.1	1,310.9	.....	113.8
Grimsby.....	25	892.8	1,014.1	.....	121.3
Guelph.....	25	11,953.4	13,131.7	.....	1,178.3
Hagersville.....	25	1,215.7	1,198.2	17.5	.....
Hamilton.....	66½	160,472.0	169,113.6	.....	8,641.6
Hanover.....	60	1,493.9	1,444.3	49.6	.....
Harriston.....	25	522.5	535.1	.....	12.6
Harrow.....	25	625.3	722.8	.....	97.5
Hastings.....	60	121.6	157.3	.....	35.7
Havelock.....	60	153.9	200.0	.....	46.1
Hensall.....	25	236.1	224.3	11.8	.....
Hepworth.....	60	24.8	25.7	.....	0.9
Hespeler.....	25	2,810.3	3,050.2	.....	239.9
Highgate.....	25	113.3	100.0	13.3	.....
Holstein.....	60	21.7	29.0	.....	7.3
Humberstone.....	25	612.4	691.0	.....	78.6
Huntsville.....	60	1,223.4	1,311.1	.....	87.7
Ingersoll.....	25	3,369.6	3,634.6	.....	265.0
Iroquois.....	60	244.8	278.1	.....	33.3
Jarvis.....	25	192.8	196.8	.....	4.0
Kemptville.....	60	384.3	380.8	3.5	.....
Kincardine.....	60	800.4	866.9	.....	66.5
Kingston.....	60	14,529.9	16,525.7	.....	1,995.8
Kingsville.....	25	691.4	729.7	.....	38.3
Kirkfield.....	60	26.0	27.0	.....	1.0
Kitchener.....	25	27,462.5	30,141.4	.....	2,678.9
Lakefield.....	60	469.5	519.7	.....	50.2
Lambeth.....	25	138.2	169.6	.....	31.4
Lanark.....	60	85.1	101.6	.....	16.5
Lancaster.....	60	50.0	66.8	.....	16.8
LaSalle.....	25	274.2	300.8	.....	26.6
Leamington.....	25	2,027.5	2,386.4	.....	358.9
Lindsay.....	60	3,889.4	3,983.8	.....	94.4
Listowel.....	25	1,518.5	1,656.8	.....	138.3
London.....	25	40,957.4	44,916.1	.....	3,958.7
London Twp.—Voted Area.....	25	633.5	672.9	.....	39.4
Long Branch.....	25	1,374.9	1,656.8	.....	281.9
Lucan.....	25	206.8	215.7	.....	8.9
Lucknow.....	60	446.2	452.7	.....	6.5
Lynden.....	25	122.5	121.2	1.3	.....

## SOUTHERN ONTARIO SYSTEM—LOADS OF MUNICIPALITIES 1943-1944—Continued

Municipality	Frequency cycles	Peak load in horsepower		Change in load	
		July to Dec., 1943	July to Dec., 1944	Decrease	Increase
MacTier.....	60	153.2	136.9	16.3	.....
Madoc.....	60	222.5	236.0	.....	13.5
Markdale.....	60	201.5	207.5	.....	6.0
Markham.....	25	423.2	397.7	25.5	.....
Marmora.....	60	142.4	158.8	.....	16.4
Martintown.....	60	43.6	46.0	.....	2.4
Maxville.....	60	114.6	120.2	.....	5.6
Meaford.....	60	764.9	790.0	.....	25.1
Merlin.....	25	94.1	135.9	.....	41.8
Merritton.....	25	12,509.5	12,465.5	44.0	.....
Midland.....	60	4,869.6	5,007.1	.....	137.5
Mildmay.....	60	161.0	163.3	.....	2.3
Millbrook.....	60	94.1	126.3	.....	32.2
Milton.....	25	1,559.2	1,613.5	.....	54.3
Milverton.....	25	392.4	507.5	.....	115.1
Mimico.....	25	2,954.0	3,209.1	.....	255.1
Mitchell.....	25	749.5	787.8	.....	38.3
Moorefield.....	25	45.7	56.4	.....	10.7
Morrisburg.....	60	305.0	336.1	.....	31.1
Mount Brydges.....	25	98.9	103.5	.....	4.6
Mount Forest.....	60	594.2	584.3	9.9	.....
Napanee.....	60	1,431.6	1,566.3	.....	134.7
Neustadt.....	60	46.1	48.8	.....	2.7
Newburgh.....	60	48.4	57.9	.....	9.5
Newbury.....	25	33.6	39.1	.....	5.5
Newcastle.....	60	185.7	176.0	9.7	.....
New Hamburg.....	25	619.8	726.0	.....	106.2
Newmarket.....	25	1,857.6	2,080.0	.....	222.4
New Toronto.....	25	12,320.4	12,556.8	.....	236.4
Niagara Falls.....	25	10,631.4	11,003.1	.....	371.7
Niagara-on-the-Lake.....	25	1,095.3	1,179.6	.....	84.3
North York Twp.—Voted Area.....	25	11,630.0	12,271.7	.....	641.7
Norwich.....	25	439.0	498.0	.....	59.0
Norwood.....	60	151.5	186.9	.....	35.4
Oakville.....	25 & 66½%	1,301.6	1,680.9	.....	379.3
Oil Springs.....	25	185.6	196.2	.....	10.6
Omemee.....	60	191.5	222.9	.....	31.4
Orangeville.....	60	764.5	766.2	.....	1.7
Orono.....	60	95.6	103.6	.....	8.0
Oshawa.....	60	18,385.4	18,368.6	16.8	.....
Ottawa.....	60	38,822.2	39,929.3	.....	1,107.1
Otterville.....	25	132.7	139.0	.....	6.3
Owen Sound.....	60	6,153.5	6,579.8	.....	426.3
Paisley.....	60	121.0	133.9	.....	12.9
Palmerston.....	25	606.3	647.8	.....	41.5
Paris.....	25	2,118.2	2,060.6	57.6	.....
Parkhill.....	25	214.5	241.9	.....	27.4
Penetanguishene.....	60	1,028.0	1,126.7	.....	98.7
Perth.....	60	1,845.8	1,922.0	.....	76.2
Peterborough.....	60	12,831.4	14,573.2	.....	1,741.8

## SOUTHERN ONTARIO SYSTEM—LOADS OF MUNICIPALITIES 1943-1944—Continued

Municipality	Frequency cycles	Peak load in horsepower		Change in load	
		July to Dec., 1943	July to Dec., 1944	Decrease	Increase
Petrolia.....	25	1,095.4	1,063.5	31.9	.....
Picton.....	60	1,235.2	1,427.6	.....	192.4
Plattsburg.....	25	141.4	154.0	.....	12.6
Point Edward.....	25	1,776.3	1,845.6	.....	69.3
Port Carling.....	60	333.3	332.4	0.9	.....
Port Colborne.....	25	2,591.0	1,925.4	665.6	.....
Port Credit.....	25	994.1	1,118.0	.....	123.9
Port Dalhousie.....	25	1,200.3	1,203.2	.....	2.9
Port Dover.....	25	533.9	638.6	.....	104.7
Port Elgin.....	60	683.3	667.4	15.9	.....
Port Hope.....	60	2,531.7	2,910.7	.....	379.0
Port McNicoll.....	60	104.1	115.5	.....	11.4
Port Perry.....	60	369.6	364.7	4.9	.....
Port Rowan.....	25	114.0	127.7	.....	13.7
Port Stanley.....	25	1,171.6	1,267.6	.....	96.0
Prescott.....	60	1,449.7	1,585.8	.....	136.1
Preston.....	25	4,265.4	4,514.7	.....	249.3
Priceville.....	60	10.0	10.0	.....	.....
Princeton.....	25	144.5	156.2	.....	11.7
Queenston.....	25	142.3	169.4	.....	27.1
Richmond.....	60	69.8	75.5	.....	5.7
Richmond Hill.....	25	509.0	588.6	.....	79.6
Ridgetown.....	25	638.5	711.8	.....	73.3
Ripley.....	60	121.2	111.3	9.9	.....
Riverside.....	25	1,258.1	1,417.1	.....	159.0
Rockwood.....	25	134.4	159.1	.....	24.7
Rodney.....	25	153.6	165.5	.....	11.9
Rosseau.....	60	49.6	40.4	9.2	.....
Russell.....	60	71.6	93.3	.....	21.7
St. Catharines.....	25 & 66 2/3	32,391.1	31,514.4	876.7	.....
St. Clair Beach.....	25	104.1	126.2	.....	22.1
St. George.....	25	156.3	218.5	.....	62.2
St. Jacobs.....	25	364.6	369.3	.....	4.7
St. Marys.....	25	1,624.5	1,791.2	.....	166.7
St. Thomas.....	25	7,967.8	8,761.4	.....	793.6
Sarnia.....	25	11,362.2	12,334.4	.....	972.2
Scarborough Twp.....	25	5,036.2	5,632.9	.....	596.7
Seaforth.....	25	783.4	1,060.6	.....	277.2
Shelburne.....	60	295.3	277.0	18.3	.....
Simcoe.....	25	2,713.1	3,106.3	.....	393.2
Smiths Falls.....	60	2,913.1	3,191.2	.....	278.1
Smithville.....	25	196.0	221.1	.....	25.1
Southampton.....	60	713.7	784.0	.....	70.3
Springfield.....	25	75.7	79.7	.....	4.0
Stamford Twp.—Voted Area.....	25	3,139.1	3,347.4	.....	208.3
Stayner.....	60	319.5	314.7	4.8	.....
Stirling.....	60	333.4	365.4	.....	32.0
Stoney Creek.....	25	263.4	273.7	.....	10.3
Stouffville.....	25	351.3	401.5	.....	50.2
Stratford.....	25	7,705.5	8,216.8	.....	511.3

## SOUTHERN ONTARIO SYSTEM—LOADS OF MUNICIPALITIES 1943-1944—Continued

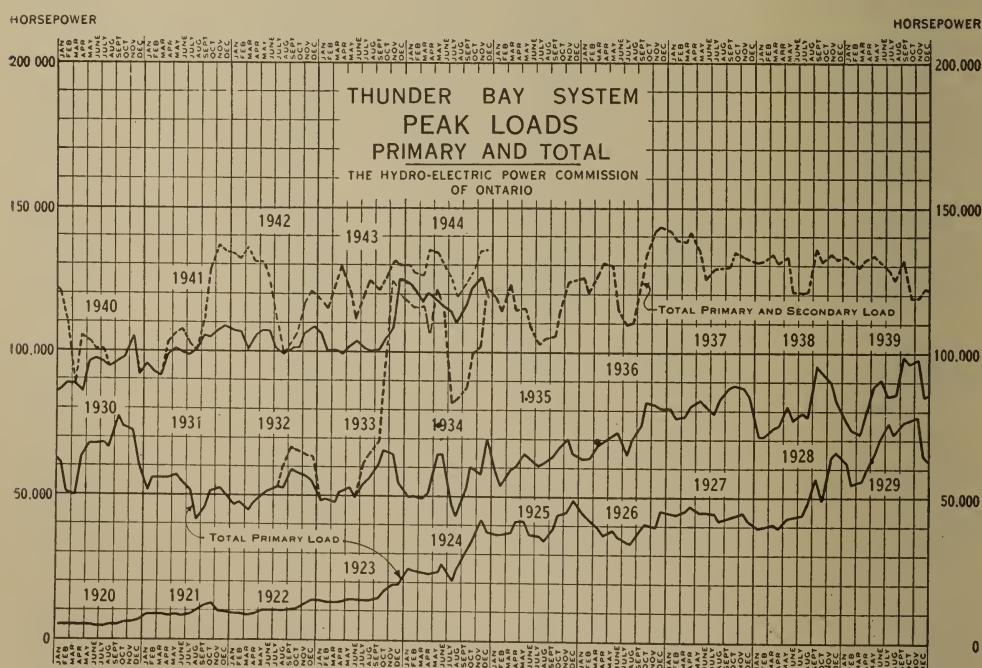
Municipality	Frequency cycles	Peak load in horsepower		Change in load	
		July to Dec., 1943	July to Dec., 1944	Decrease	Increase
Strathroy.....	25	1,597.4	1,694.8	.....	97.4
Streetsville.....	25	246.2	268.5	.....	22.3
Sunderland.....	60	81.8	93.8	.....	12.0
Sutton.....	25	474.1	560.0	.....	85.9
Swansea.....	25	3,319.0	3,433.0	.....	114.0
Tara.....	60	128.5	144.3	.....	15.8
Tavistock.....	25	715.4	750.3	.....	34.9
Tecumseh.....	25	571.0	537.5	33.5	.....
Teeswater.....	60	150.3	175.9	.....	25.6
Thamesford.....	25	241.1	248.9	.....	7.8
Thamesville.....	25	223.9	251.7	.....	27.8
Thedford.....	25	136.7	184.0	.....	47.3
Thorndale.....	25	103.2	101.6	1.6	.....
Thornton.....	60	39.2	41.1	.....	1.9
Thorold.....	25	2,867.2	3,429.0	.....	561.8
Tilbury.....	25	1,574.1	1,626.0	.....	51.9
Tillsonburg.....	25	1,407.0	1,640.0	.....	233.0
Toronto.....	25	377,179.6	393,919.6	.....	16,740.0
Toronto Twp.—Voted Area.....	25	3,466.3	3,764.8	.....	298.5
Tottenham.....	60	91.6	119.9	.....	28.3
Trafalgar Twp. V.A. No. 1.....	25 &	429.5	484.9	.....	55.4
Trafalgar Twp. V.A. No. 2.....	66 2/3	189.4	186.2	3.2	.....
Trenton.....	60	5,206.9	5,652.7	.....	445.8
Tweed.....	60	271.3	308.0	.....	36.7
Uxbridge.....	60	390.5	370.8	19.7	.....
Victoria Harbour.....	60	117.3	112.2	5.1	.....
Walkerton.....	60	996.6	1,144.6	.....	148.0
Wallaceburg.....	25	4,217.7	4,694.3	.....	476.6
Wardsville.....	25	40.3	43.0	.....	2.7
Warkworth.....	60	72.5	88.7	.....	16.2
Waterdown.....	25	272.8	285.6	.....	12.8
Waterford.....	25	453.9	506.7	.....	52.8
Waterloo.....	25	5,701.1	6,698.4	.....	997.3
Watford.....	25	415.9	425.9	.....	10.0
Waubaushene.....	60	167.1	195.3	.....	28.2
Welland.....	25	11,217.2	13,226.5	.....	2,009.3
Wellesley.....	25	151.9	148.2	3.7	.....
Wellington.....	60	334.5	464.1	.....	129.6
West Lorne.....	25	240.0	262.6	.....	22.6
Weston.....	25	4,892.3	5,539.5	.....	647.2
Westport.....	60	99.7	123.9	.....	24.2
Wheatley.....	25	200.5	226.8	.....	26.3
Whitby.....	60	1,448.8	1,614.3	.....	165.5
Wiarton.....	60	283.7	376.4	.....	92.7
Williamsburg.....	60	103.5	98.7	4.8	.....
Winchester.....	60	391.8	430.0	.....	38.2
Windermere.....	60	79.9	110.3	.....	30.4
Windsor.....	25	55,342.1	56,445.0	.....	1,102.9
Wingham.....	60	705.4	866.6	.....	161.2
Woodbridge.....	25	653.1	676.1	.....	23.0

## SOUTHERN ONTARIO SYSTEM—LOADS OF MUNICIPALITIES 1943-1944—Continued

Municipality	Frequency cycles	Peak load in horsepower		Change in load	
		July to Dec., 1943	July to Dec., 1944	Decrease	Increase
Woodstock.....	25	8,632.4	9,829.4	.....	1,197.0
Woodville.....	60	76.1	83.2	.....	7.1
Wyoming.....	25	77.9	92.3	.....	14.4
York Township.....	25	22,296.2	23,257.4	.....	961.2
Zurich.....	25	161.1	153.2	7.9	.....

## SOUTHERN ONTARIO SYSTEM—LOADS OF NEW MUNICIPALITIES

Municipality	Frequency cycles	Date connected	Peak load in horsepower		Change in load	
			Initial	July to Dec., 1944	Decrease	Increase
Renfrew.....	60	Dec. 1, 1944	238.6	238.6	.....	.....
Thornbury.....	60	Aug. 24, 1944	55.8	65.3	.....	9.5



## THUNDER BAY SYSTEM

The maximum primary peak demand of the Thunder Bay system occurred in December 1943 and was 125,737 horsepower. Compared with the corresponding peak load of the previous year, it shows an increase of 15.8 per cent. Energy output for primary power purposes was 9.2 per cent greater than in the previous year. These large increases resulted chiefly from the initial delivery in December 1943, of about 20,000 horsepower to the Rainy River district of Northern Ontario Properties.

Arrangements were continued in 1944 enabling the paper companies under the control of the Abitibi Power and Paper Company to transfer power for electric steam boiler operation from the generating station of the Kaministiquia Power Company, subsidiary of the Abitibi Power and Paper Company, through the Commission's transformers and over the Commission's transmission circuits. During the year 22,629,760 kilowatt-hours were thus transferred to the paper companies which, with the surplus energy available at the Cameron Falls and Alexander generating stations, produced a total of 110,297,400 kilowatt-hours for electric boiler operation.

### THUNDER BAY SYSTEM—LOADS OF MUNICIPALITIES—1943-1944

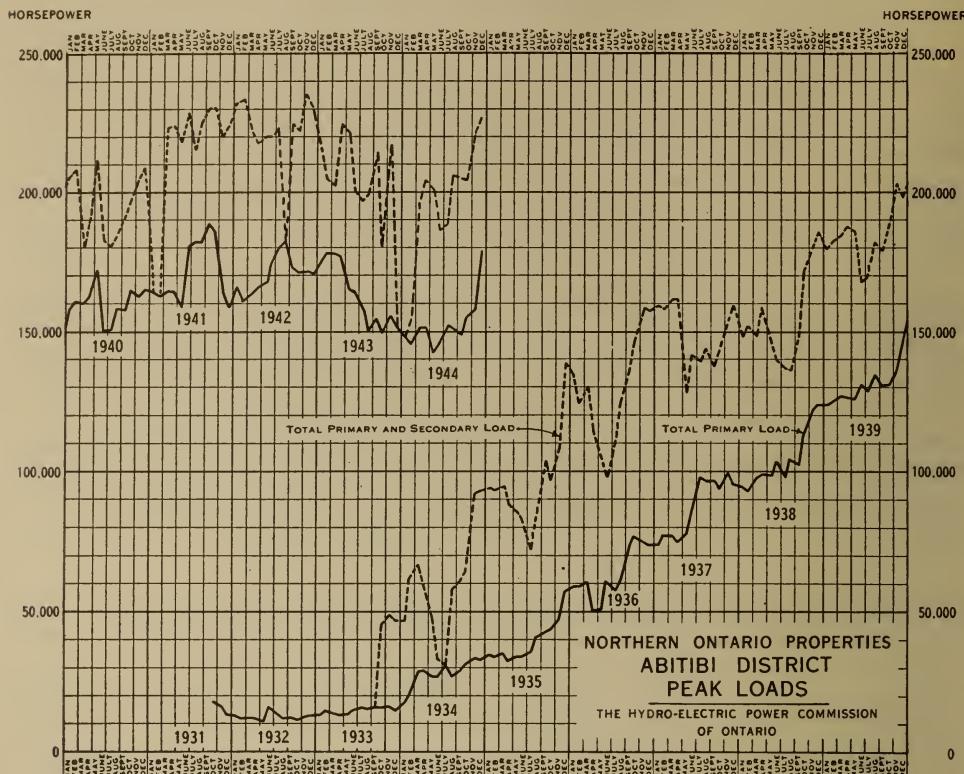
Municipality	Frequency cycles	Peak load in horsepower		Change in load	
		July to Dec., 1943	July to Dec., 1944	Decrease	Increase
Beardmore Townsite.....	60	84.6	92.6	.....	8.0
Fort William.....	60	18,071.0	18,876.2	.....	805.2
Geraldton Townsite.....	60	540.3	582.2	.....	41.9
Nipigon Twp.—Voted Area.....	60	251.9	273.1	.....	21.2
Port Arthur.....	60	23,656.1	25,482.1	.....	1,826.0

## NORTHERN ONTARIO PROPERTIES

In areas served by the Northern Ontario Properties, the average output for primary power purposes receded by about 10 per cent. This was due chiefly to curtailment in gold mining activities.

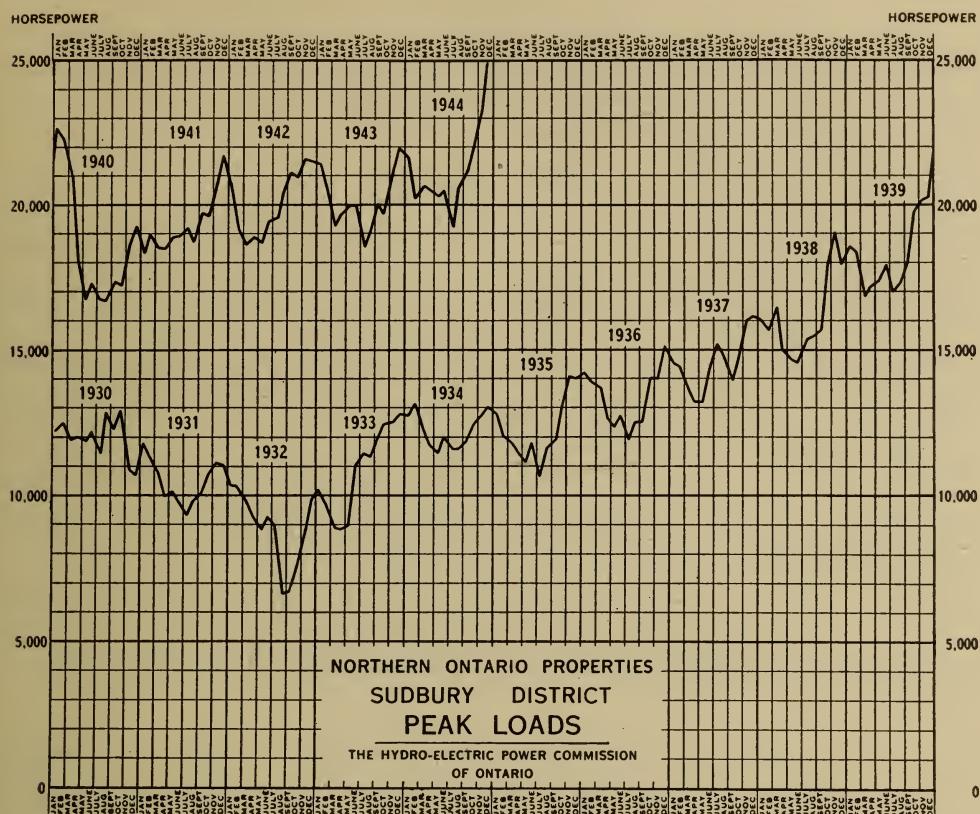
### Abitibi District

Compared with the previous year, the demand for primary power in the Abitibi district was considerably smaller. The primary peak load dropped from 177,882 horsepower to 155,496 horsepower, a decrease of 12.6 per cent, and the total energy demands for primary power during the year declined 11 per cent.



Water storage at the beginning of the year was decidedly subnormal and in order to safeguard a continuous river flow sufficient to generate the primary load demands of the district, a programme of strict conservation of storage was followed up to near the spring run-off period, which commenced about the middle of April. For the balance of the year, except during a period of subnormal precipitation in July and August, river flow was generally good. However, the water situation for the year as a whole was below normal. Total production at the Canyon plant during the year was 933,000,000 kilowatt-hours, as compared with 1,038,000,000 kilowatt-hours during the previous year. The year's total output includes 133,000,000 kilowatt-hours of surplus energy generated for delivery to the electric boilers at the paper mills of the Abitibi Power and Paper Company.

During the latter part of May and early June, there were forest fires of serious proportions burning in several areas of the Abitibi district. At times these fires became a major menace to the Commission's transmission lines but fortunately comparatively little damage was done to the lines before the fires were finally brought under control.



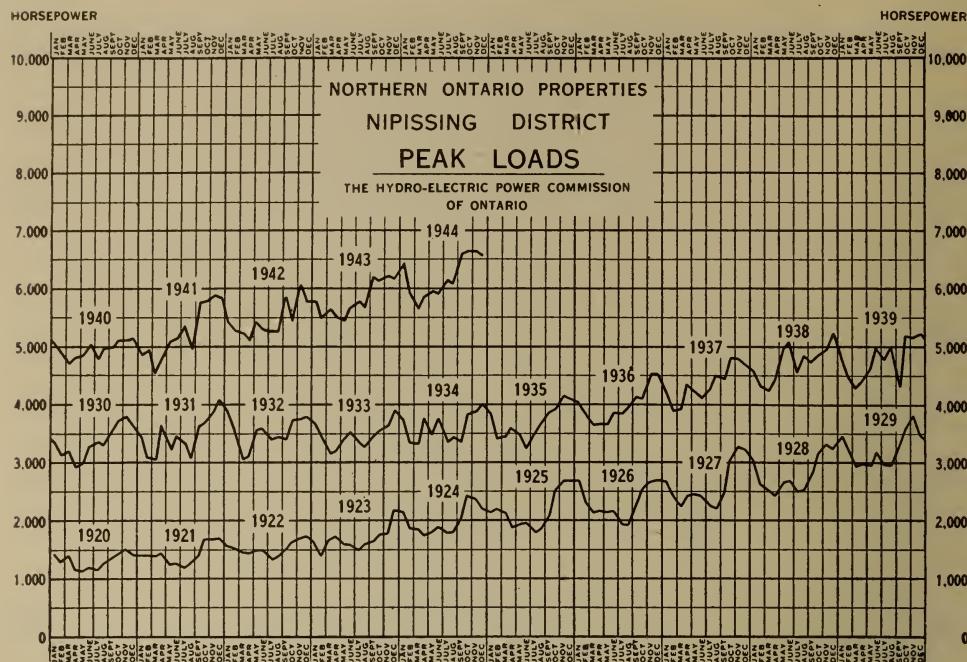
### Sudbury District

The total load of the Sudbury district, all of which was for primary distribution, was slightly greater than the corresponding load of the previous year. The peak load of 21,945 horsepower exceeded that of the previous year by 1.8 per cent and the total energy consumption for the year was 2.4 per cent greater.

Water conditions were subnormal in the Sudbury district throughout the year. To conserve storage on the Sturgeon and South River watersheds for use in the winter of 1944-5, approximately 5,000,000 kilowatt-hours were purchased from the Abitibi Power and Paper Company's Sturgeon Falls plant between the middle of July and the end of October, 1944.

### Nipissing District

The Nipissing district peak load was 6,675 horsepower and exceeded the peak load of the previous year by 7.9 per cent. The energy consumption for the year was 7.1 per cent greater.



Water conditions in this district have been about normal but, in recent years, insufficient to generate the district load requirements. During 1944 the shortage was approximately 9,130,000 kilowatt-hours, which was supplied from the Sudbury district's resources.

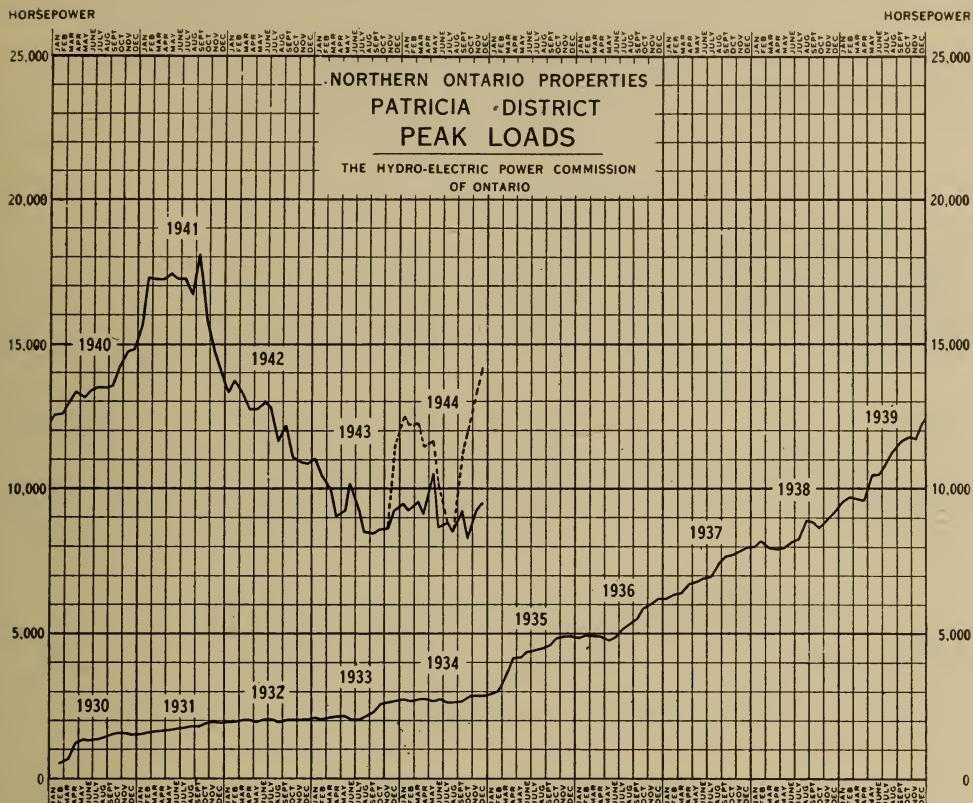
### Manitoulin District

Power supplied to the Manitoulin district is purchased from the Manitoulin Pulp Company. Operation throughout the year was normal. Compared with the previous year the peak load was 16.4 per cent greater and the year's energy requirements increased 9.5 per cent.

### Patricia District

Compared with the previous year, primary demands in the Patricia district were smaller, both the peak and year's energy demands receding nearly 5 per cent.

Power demands for the mining and refining of gold at the mines in the Patricia district have dropped to about one-half of what they were at the beginning of the war. As a result, considerably more reserve capacity is now available than formerly. Part of this reserve capacity was used to supply electric boiler load for heating purposes at three of the mining properties in



the Patricia area. Initial delivery to two of these mines was made in December 1943 and a third in October 1944. About 8,000,000 kilowatt-hours were thus utilized.

### Rainy River District

Parallel operation between the Rainy River district, which purchases power from the Thunder Bay system at cost, and the Ontario-Minnesota Pulp and Paper Company's system was commenced on November 28, 1943, and on December 9, 1943, delivery of approximately 10,000 horsepower was made to replace the original output of the Ontario-Minnesota Pulp and Paper Company's Moose Lake generating station, which was closed down at that time preparatory to the diversion of the Seine river and the pumping out of Steep Rock lake. Initial delivery of power for the pumps was made on December 15. Following this the generators at the Company's Moose Lake plant were converted to synchronous condensers and were placed in service near the end of February for the regulation of voltage at that point.

## NORTHERN ONTARIO PROPERTIES—LOAD OF MUNICIPALITIES—1943-1944

Municipality	Frequency cycles	Peak load in horsepower		Change in load	
		July to Dec., 1943	July to Dec., 1944	Decrease	Increase
<b>ABITIBI DISTRICT</b>					
Hislop Townsite	25	36.7	33.1	3.6	.....
Kearns Townsite	25	125.7	117.8	7.9	.....
King Kirkland Townsite	25	30.3	32.4	.....	2.1
Matachewan Townsite	25	151.1	162.7	.....	11.6
Mooretown	25	42.9	40.2	2.7	.....
Ramore-Matheson	25	137.5	128.4	9.1	.....
<b>SUDBURY DISTRICT</b>					
Capreol	60	264.2	282.6	.....	18.4
Sudbury	60	10,186.3	11,327.0	.....	1,140.7
<b>NIPISSING DISTRICT</b>					
Callander	60	89.7	96.9	.....	7.2
Nipissing	60	3.0	3.0	.....	.....
North Bay	60	4,913.3	5,305.6	.....	392.3
Powassan	60	116.6	128.4	.....	11.8
<b>PATRICIA DISTRICT</b>					
Cottage Cove Townsite	60	56.3	55.9	0.4	.....
Hudson	60	70.2	72.8	.....	2.6
Red Lake Townsite	60	126.3	160.3	.....	34.0
Sioux Lookout	60	313.9	345.8	.....	31.9

## MAINTENANCE OF THE SYSTEMS

During the war years it has been necessary to defer maintenance work not actually essential to maximum service for war production. Under war conditions heavier loads cause additional wear, and shortages in skilled labour and supplies have made it necessary to accept a somewhat lower standard of maintenance. Nevertheless, all essential equipment has been maintained in efficient operating condition. As evidence of this may be cited the absence of any serious failures during 1944 notwithstanding the high level of output throughout the year.

Transmission lines were regularly patrolled. A careful examination was made of poles to locate those weakened by rot; several thousand defective poles were replaced, and extensive work was carried out treating the butts of other poles to retard rot. Insulators were checked systematically and defective units replaced to forestall failure and the resultant interruptions to service.

Repairs were carried out on the generators and turbines at several power plants. In this connection, it is interesting to note that in the Toronto Power plant at Niagara Falls a technique was developed by means of which broken generator shafts 14 inches in diameter were effectively restored by

welding and heat treatment, at a fraction of the time and expense that would have been required to obtain and machine new shafts.

At a number of transformer stations, 110,000-volt oil breakers were modernized to increase their capacity. Transformers varying in size from 150 to 3,000 kva were rebuilt and restored to service.

## FORESTRY DIVISION

Due to the loss of personnel to Military Service and the lack of suitable replacements, the extent and volume of Forestry operations have necessarily been curtailed. A brief statement of the volume of work performed this past fiscal year on the Southern Ontario system is given below.

### Line Clearing

Operating and Rural department linemen assigned to work with forestry squads when in their respective districts have contributed in no small measure to what has been accomplished. Cooperation by the Department of Highways facilitated this work.

### SUMMARY OF LINE CLEARING OPERATIONS

	Brush cutting pole spans	Trees treated	Miles of line cleared	Tree density per mile
Bell Telephone Co., joint use of poles.....	.....	294	6	49
New line construction.....	.....	223	2	111.5
Municipal Hydro systems.....	.....	1,452	25	58
Transmission and Telephone lines.....	138	50,840	1,908	26.6
Rural power districts.....	6	30,364	754	40.2
Total.....	144	83,173	2,695	30.8

### Forest Management

The deciduous and coniferous trees planted in years past on areas available for this purpose were inspected. Some destruction has been caused in one area by rodents; remedial measures have been taken which it is hoped will prevent further damage.

### Reforestation

Some deciduous tree seeds have been sown in areas along the Chippawa-Queenston Canal that will not support nursery stock until it could become established. Little replacement planting was done.

### Spraying

The trees and shrubs on some of the more important properties in the Eastern and Niagara divisions were sprayed with chemical mixtures for the control of insects and fungus diseases.

## SECTION III

### MUNICIPAL WORK

THE Commission acts in an advisory capacity to the municipalities with which it has contracts, and assists municipal officials to purchase, construct or extend distribution systems. As provided under The Power Commission Act, all rate adjustments are approved by the Commission, therefore, a study of the operating conditions of all utilities is made annually and adjustments recommended.

In rural power districts, the Commission, on behalf of the township corporations, operates the rural power systems and distributes electrical energy to the customers of the respective corporations in all such rural power districts. Consult Section IV of Report.

#### SOUTHERN ONTARIO SYSTEM

During the year 1944, the Southern Ontario system load was influenced by two factors; a gradual recession of certain large industrial loads used for war purposes, and an increased demand by municipalities. The municipal utilities, rural power districts and industrial companies' regular loads increased by an average of 88,626 horsepower, or 6.3 per cent, but the recession of large industrial war loads tended to reduce the demand with the net result that the total average load supplied for all purposes exceeded the 1943 load by approximately 50,000 horsepower.

Owing to the partial lifting of metal restrictions, relating to service to rural consumers, and to general growth in use, there was an increase in the average rural load of 8,780 horsepower, or 11.75 per cent. Immediate construction of a number of substations to provide additional capacity is proposed.

On October 1, 1944, the controls instituted by the Dominion Power Controller were cancelled, thus restoring for lighting and power customers most of their present requirements.

#### **Engineering Assistance to Municipalities**

General engineering assistance was given to municipalities during the year in preparing estimates for expenditures to be made in the post-war period. These expenditures include deferred maintenance and rehabilitation of the local systems to provide for changes in the demand for power during the post-war period.

The assistance given relates to the design of more modern street-lighting facilities, the preparation of estimates for increased substation facilities, the taking on of flat-rate water heaters and the general utilization of power.

### Niagara Division

Conditions on the Niagara division of this system are indicated by the following statements:

In the Toronto metropolitan area there has been a marked shortage of houses and during 1944 a housing programme was advanced which required additional substation facilities in most municipalities adjacent to the city. In this area also there is evidence of expansion in manufacturing facilities and new plants are being planned for the suburbs. Should these plans be carried out, important power distribution works, including new high-tension stations, will be needed to serve this growing metropolitan area.

The synthetic rubber industry continued to demand more power and during 1944 a large increase was recorded. In the Hamilton area substantial expansion of steel-making facilities is under way.

An analysis of load-line conditions in the western section of the Niagara division showed that it would be advantageous to install at Essex transformer station the third 40,000-kva, 13,200-volt synchronous condenser ordered at the time the two installed at Burlington transformer station were arranged for. Studies show that with the installation of this condenser at Essex, approximately straight-line voltage should result at the St. Thomas, Kent, Essex and St. Clair transformer stations. This installation at Essex will be completed as early as possible in 1945.

During 1944, the Commission decided to construct a 110,000-volt steel-tower line from Kent transformer station to St. Clair transformer station, with line automatic, 110,000-volt oil circuit-breakers installed at each end of the line. This will provide an alternative route to St. Clair transformer station and thus improve service to Sarnia and other municipalities served therefrom. Since 1926, power for the St. Clair transformer station has been supplied over a 110,000-volt wood-pole line from St. Thomas. This wood-pole line will soon require further replacement of wooden structures. The new steel-tower line will be installed as early as possible in 1945, and will minimize the effect of interruptions for replacement of wooden structures on old line.

Certain municipalities received special engineering advice and assistance respecting matters which are more fully referred to below:

**Amherstburg**—Plans are being prepared for removing the cedar poles from two blocks of the business section of the town, where the street is narrow, and building new pole lines on private property behind the stores. A new system of street lighting will be provided in the near future.

**Blenheim**—Additional transformer capacity was installed to take care of additional power loads.

**Bothwell**—Additional transformer capacity was installed to take care of a new load of 35 horsepower for a grain-shelling plant.

**Brantford**—Further additions to the substations were required to supply additional power for the manufacture of agricultural machinery and munitions. The municipality purchased one 3,000-kva transformer for this purpose.

**Brantford Township**—In June 1944, the Township passed a by-law to enlarge and alter the boundaries of the voted area. This change will necessitate the transfer of a number of rural customers to the Township, the rehabilitation of the Township system and the construction of two new substations to replace an existing supply from the Brantford Hydro-Electric System.

**Burgessville**—An additional power bank of 75 kva is being installed to provide service for a new power customer.

**Chatham**—The plan of rebuilding the oldest pole lines and stringing heavier copper conductors was continued. A site was purchased on Grand Avenue north of the Thames river for a new substation to supply the north section of the city. Certain extensions were made to the primary underground system.

**Dresden**—The growth of load has made it necessary to increase the substation capacity and arrangements are being made for a new substation. The construction, after the war, of a new office building is being considered.

**Dundas**—A 600-kva transformer was installed on a new station site to take care of increased loads, largely for Ancaster Township voted area.

**East York Township**—An agreement was made covering the purchase from the Commission by the East York Hydro-Electric Commission of the five complete substations, each of 1,875-kva capacity.

**Embro**—Arrangements have been made to provide an additional 50 horsepower for an existing power consumer.

**Erieau**—A new bank of three 25-kva, 575-volt transformers was installed to supply power to a fisheries plant and a ship-building company.

**Galt**—To provide for increased power loads, two 750-kva, 13,200 to 550-volt three-phase transformers were purchased and installed at locations close to the larger consumers' plants.

The arrangement of three 4,000-volt voltage regulators was altered to give regulation on feeders instead of on the 4,000-volt substation bus.

**Georgetown**—Power transformers were rearranged in the municipality to make it possible to supply 250 horsepower of additional load to a large power consumer.

**Glencoe**—A new bank of three 25-kva, 575-volt transformers was installed for a new power load.

**Goderich**—The Commission was requested to give engineering assistance in the preparation of the design of, and estimates for the cost of a new substation.

**Guelph**—The Guelph Light and Heat Commission will purchase additional transformers for a new substation to be constructed in 1945 in the northerly section of the city.

**Hamilton**—The Hamilton Hydro-Electric System is arranging for the utilization of additional power by a large steel plant. This additional load will necessitate further extensions to the Commission's 110,000-volt stations and transmission lines.

**Harrow**—An increased load in a canning plant necessitated rebuilding the existing power bank and supplying a heavy underground cable to handle the service.

**Hespeler**—Increased load at a large textile plant made it necessary to provide larger transformer capacity at the plant. One of the 1,500-kva transformers was moved from the local substation to a site near the plant.

**Kingsville**—Plans have been requested for the installation of a primary underground system for the central part of the town.

**London**—It was necessary to extend the 13.2-kv line a distance of approximately one-half mile to supply power to a new well for the water-works system.

**Merlin**—Additional transformer capacity will be installed to handle the increased load to a grain and feed mill.

**Milverton**—Three 75-kva power transformers were installed to supply a flour mill that has not been operating for some years. It has been acquired by a company which rehabilitated it, constructed a railway siding and is producing crushed grains and stock feed.

**Newmarket**—This municipality has been supplied by the Commission for a number of years on a fixed-rate contract, taken over with the purchase of the Metropolitan Railway Company.

It is proposed that the town enter into a contract for a supply of Hydro power on a cost basis. By-laws will be submitted at the annual elections.

**Niagara-on-the-Lake**—Further assistance was given in rebuilding the distribution system.

**North York Township**—The Township Hydro-Electric Commission is arranging for a supply of power to the Sunnybrook Military Hospital.

**Oakville**—A 4,000-volt, 25-cycle distribution line was constructed for the town of Oakville to deliver 25-cycle power from a new substation in the municipality to a company for the manufacture of materials for the Armed services. The distribution switchboard in the Oakville substation was rehabilitated to supply improved service to the Oakville consumers.

**Parkhill**—Changes were made in the distribution system and a new bank of transformers installed to improve present conditions and provide service to a new power customer.

**Ridgetown**—This municipality is planning to put up a new office building after the war on a lot they now own.

**Riverside**—Work was continued on rebuilding jointly used lines in the alleys back of the Main street. A new street-lighting system is being arranged for.

**St. Thomas**—Preliminary plans are being prepared to supply 13.2-kv power to a large new industry in the east end of the city.

**Sarnia**—The distribution system was extended to supply a number of wartime houses. Detailed plans are being made to remove all cedar poles from the main business section of the town by running all conductors in an underground-duct system.

**Stouffville**—Detail plans showing changes to sections of the distribution system were submitted to the municipality and actual work will progress early in 1945.

**Tillsonburg**—Arrangements are being made to supply 160 horsepower to a new industry. A portion of the primary line supplying an industrial plant at the southern limits of the municipality is being rebuilt with heavier conductor to improve the present service and to take care of a possible increase in load.

**Trafalgar Township, Voted Area No. 1**—Facilities were provided to supply two 25-cycle power consumers in the township of Trafalgar and power was delivered from the new Oakville substation. The work of rehabilitating the Trafalgar Township switchboard in the Oakville substation, was completed.

**Wallaceburg**—Following the annexation of part of the adjoining township by the town, the local distribution system was extended to supply a new canning factory and waterworks-pumping station. Plans are being prepared to install a new substation in the industrial section.

**Waterloo**—A 1,500-kva, 13,200/2,200-volt, three-phase transformer was purchased and is to be installed in the local substation to take care of lighting and power increases. A new substation in the industrial section is proposed.

**West Lorne**—Provision is being made to supply an additional block of power to an existing manufacturing plant. This will require a re-arrangement of the transformer banks and changes to the distribution system.

**Windsor**—A new primary underground-duct system was installed under the railway tracks at Walkerville to supply a new grain elevator. The oldest sections of the distribution system are being rebuilt according to plan. Work was continued on the substation supplying a large motor plant.

**Woodstock**—The 375-kva, three-phase, 550-volt indoor transformer at Butler Street substation is being replaced by an outdoor bank of double the size. This change provides for a new load of approximately 150 horsepower, as well as for increases in present loads.

**York Township**—An agreement was entered into with the municipality of the Township of York for the sale, by the Commission, of 26.4-kv lines and six substations, each of 3,750-kva capacity.

#### Georgian Bay Division

The 60-cycle power supply of the Georgian Bay division is provided by twelve hydro-electric generating plants and a frequency-changer station at Hanover through which 25-cycle power from the Niagara division is transformed to 60-cycle power.

The maximum dependable generating plant capacity available, including that through the frequency-changer station, is slightly under 60,000 horsepower. No increased capacity was added during 1944 and no additional transmission lines were constructed. As the peak load established is approximately equal to the available capacity, studies were made concerning the best means of providing increased power. The possibilities reviewed were: a new frequency-changer station at Hanover; a 110-kv transmission line from Hanover to Fergusonvale, the central distribution point on the Georgian Bay division; new generating plant capacity at available sites in the Muskoka area, and a 110-kv transmission line connection to the Eastern Ontario division. It is planned to make additional generating capacity available in 1945. Additional transformer capacity has been or will be provided at municipal sub-stations where needed.

Valuations and estimates were made concerning the acquisition of the Caledon Electric Company's system which supplies power to approximately 1,000 customers in municipalities and rural areas in the counties of Peel and Wellington. Arrangements were made for the purchase of this system by the Commission, to become effective November 1, 1944.

**Engineering Assistance to Municipalities**

General engineering advice and assistance were given to all municipalities of the Georgian Bay division in connection with the operation of local distribution systems, and specific engineering assistance concerning the matters noted was rendered to the following municipalities,—

**Bradford**—The local transformer station capacity was increased from 300 to 600 kva. Improved Hydro service to the Holland River Marsh drainage scheme included the installation of a new 150 horsepower pumping plant and distribution line extensions to many new homes and a large cold storage plant, which are a direct result of extensive utilization of reclaimed land for market gardening.

**Cookstown**—The local transformer station capacity was increased from 75 to 150 kva.

**Penetanguishene**—Extensive alterations to the distribution system and to power consumers' transformers and motor equipment, which have been in progress during the past three years, were completed during 1944, with a noticeable improvement in voltage regulation and power factor conditions.

**Southampton**—The local transformer station capacity was increased from 150 to 250 kva to provide for the gradual load growth which has taken place.

**Thornbury**—A new transformer station of 225 kva capacity was installed to augment the supply of power obtained from the local hydro-electric generating plant. A temporary arrangement for a supply of power was made pending a vote of the ratepayers authorizing the town to execute an agreement with the Commission, involving a power supply from this new station on a cost basis.

**Uxbridge**—Preliminary investigations were undertaken regarding the removal of pole lines from the main street.

### **Eastern Ontario Division**

The Bark lake storage reservoir in connection with the Barrett Chute plant, was in continuous operation for the entire year, although the reservoir was not full until about August. The interchange of power with the 25-cycle supply, permits the conservation of storage water on the Madawaska river during the summertime to be used later as and when required on the Eastern Ontario division.

There was little change in war industries, most of them continuing to operate at full load, and it was not necessary to increase transmission lines and station capacities during 1944 on their account. The municipalities, however, continue to show a steady upward trend in load. Towards the end of the year, a number of airfields decreased their load due to a gradual falling off of requirements for the Commonwealth Air Training Plan.

Distribution stations were increased in capacity in a number of municipalities and rural districts.

**Engineering Assistance to Municipalities**

Certain municipalities received special engineering advice and assistance respecting matters which are more fully referred to below:

**Almonte**—For many years Almonte has been supplied with power from a plant owned by the town, but owing to increase in load beyond the capacity of the Municipal plant, negotiations were carried on between the

municipality of Almonte and the Commission for an additional power supply. On August 21, 1944 the electors voted in favor of entering into a cost contract agreement with the Commission for 200 horsepower. It is expected that a temporary installation will be made early in 1945.

**Belleville**—Estimates have been provided in connection with a new 3,000-kva station, 44 kv to 4 kv, to serve the western portion of the city.

**Bowmanville**—Growth of load necessitated the installation of a 1,000-kva transformer in the Bowmanville substation, which brought the capacity up to 3,250 kva.

**Millbrook**—To serve new industries, an increase in the capacity of Millbrook substation was completed early in the year, making three-phase power available for the first time.

**Oshawa**—Negotiations were completed for the purchase by the Oshawa Public Utilities Commission of No. 3 distributing station with a capacity of 6,000 kva. This is the first step in the ultimate purchase by Oshawa of the three 44 kv to 4 kv distributing stations serving the city.

**Peterborough**—Arrangements were made for a supply of power by Peterborough Public Utilities Commission to the Quaker Oats Company to augment the power obtained by it from its own hydro-electric generating station. This power will be supplied at 44,000 volts.

In order to improve service to the city of Peterborough, improved high-tension line switching arrangements are being made.

**Renfrew**—For many years Renfrew has been supplied with power from two generating plants owned by the town and situated within the municipal limits. Due to growth of load beyond the capacity of these two plants, negotiations were carried on between the municipality and this Commission for an additional supply of power.

On August 29, the electors of Renfrew voted in favor of entering into a cost contract with this Commission for 200 horsepower. It is expected that power will be delivered on December 1, 1944.

### THUNDER BAY SYSTEM

The Thunder Bay system is the only co-operative group in the northern portion of the Province served on a cost basis similar to the Southern Ontario system. It includes the cities of Port Arthur and Fort William, a voted area in Nipigon township known as Nipigon village, and the Thunder Bay and Nipigon rural power districts, now served as part of the amalgamated Hydro rural service.

The mining district east of the Nipigon river in the Beardmore and Longlac areas, although listed in the past as forming a portion of the Thunder Bay system, is virtually a portion of the Northern Ontario Properties and will eventually be transferred. In addition to providing for the requirements of its own cost municipalities, the Thunder Bay system sells power to the Northern Ontario Properties represented by the Rainy River mining district, the generating source of power supply being two developments on the Nipigon river at Cameron Falls and Alexander, having a combined plant capacity of 126,000 horsepower.

Power supply in the Thunder Bay district is largely concerned with the development of forest products and mineral deposits, the two major sources

of raw material in northern Ontario. During the year 1944, approximately 52,000 horsepower was supplied to pulp and paper mills, which was a reduction of 7.5 per cent over 1943 loads, and 7,700 horsepower for gold mining operations, a reduction of 14.4 per cent over 1943 loads, both of these decreases being due to war conditions.

The cities of Port Arthur and Fort William occupy a unique position with respect to the grain trade of Canada, being situated at the head of navigation on lake Superior. They have facilities in terminal grain elevators for handling the transfer of the major portion of the western-grown grain crop from rail to water transportation systems, with storage capacities sufficient to hold at any one time from 25 to 35 per cent of the annual crop. Large blocks of power are required.

The Port Arthur load in 1944 increased by 13.7 per cent and the Fort William load by 4.8 per cent over 1943, due partly to an increase in the demand for power supplied for war industries. Load increases occurred in 1944 over 1943 in Nipigon village of 6.4 per cent, and in the Thunder Bay rural power district of 7.9 per cent.

The total average load sold by the Thunder Bay system for the year 1944 was 116,333 horsepower, representing an increase of approximately 14.8 per cent over 1943 conditions. This increase was due to the load taken by the Steep Rock Iron Mines in the Rainy River district of the Northern Ontario Properties, amounting to 16,972 horsepower, which was first served in November 1943 and which, together with municipal load increases, more than offset the recession in power demand for the gold mining and pulp and paper industries.

Negotiations were carried on during the year covering power supply to a large kraft paper mill at Red Rock adjacent to Nipigon village, which will result in further load increases next year of some 8,000 horsepower. This load, together with that of the Steep Rock Iron Mine, will result in a total load increase of from 25,000 to 30,000 horsepower to be supplied by the generating plants of the Thunder Bay system and has necessitated the installation of a fourth generating unit of 20,000 horsepower at the Alexander generating plant on the Nipigon river.

#### **Engineering Assistance to Municipalities and Mines**

The local Commissions at Port Arthur, Fort William and Nipigon village received assistance concerning the operation and maintenance of their local distribution systems and periodic visits were made to all operating mines served by the Thunder Bay system.

#### **NORTHERN ONTARIO PROPERTIES**

The districts served by the Commission on behalf of the Province in northern Ontario are the Abitibi, Sudbury, Nipissing, Patricia and Rainy River districts. In addition there is included in the Northern Ontario Properties the rural power district of Manitoulin Island.

Power for the first four districts is supplied from ten hydro-electric generating plants having a combined normal plant capacity of 288,300 horsepower. These supplies in 1944 were supplemented by power purchased from the Abitibi Power and Paper Company Sturgeon Falls plant in the Sudbury area; from the Thunder Bay system for the Rainy River district, and from a local source for the Manitoulin rural power district.

Service was provided in sixteen municipalities and mining townsites, and to thirty-four gold mining properties—twenty-seven of which were under production during 1944 with seven closed down and taking power for caretaking purposes only. Power was also supplied to the Canada Northern Power Corporation, the majority of whose customers are gold mining properties. Service was also given in five rural power districts now forming part of the amalgamated Hydro rural power service given throughout Ontario.

The total average load sold in 1944 was 198,663 horsepower, an increase of approximately 1,600 horsepower over 1943. The fact that there is an increase is due to the Rainy River district being placed in operation for the first time at the beginning of the fiscal year with an average annual load of approximately 16,000 horsepower.

In northern Ontario such communities as exist are mostly dependent upon the mines. It is not practicable, therefore, to develop in northern Ontario co-operative systems such as form the basis of Hydro operations in southern Ontario. For this reason and partly because of the hazards of mining operations the publicly owned Hydro properties of northern Ontario are held by the Commission in trust for the Province and are operated upon the financial responsibility of the Government. Nevertheless, although Hydro in northern Ontario is not a co-operative enterprise supplying power at cost as it is in southern Ontario, yet on the other hand it is not operated for the purpose of supplying a profit to the Government.

Hydro's purpose in northern Ontario is to encourage the mining industry and facilitate the development of new properties by the establishment of ample supplies of electric power at a stabilized low cost.

The rates authorized by the Commission have provided for ample reserves and the entire Northern Ontario Properties is in an excellent financial condition.

In the Abitibi district the average load sold in 1944 amounted to 144,916 horsepower, being a decrease of 9.1 per cent compared with 1943. Power is supplied to the mining areas of Porcupine, Kirkland Lake and Matachewan and to the International Nickel Company at Sudbury.

In the Sudbury district the average load sold in 1944 amounted to 22,506 horsepower, an increase of 6.5 per cent. Power is supplied both to the International and Falconbridge Nickel Companies for mining operations.

In the Nipissing district the average load sold amounted to 5,524 horsepower, an increase of 8.6 per cent. Service is given to the city of North Bay and territory adjacent thereto.

In the Patricia district the average load sold in 1944 amounted to 9,016 horsepower, a decrease of 17.7 per cent. This district includes the Red lake and Pickle mining areas, the town of Sioux Lookout and the Dryden Paper Company.

In the Rainy River district, placed in operation in November 1943, there was an average load of 16,154 horsepower. Power supply for this district is purchased at a frequency of 60-cycles from the Thunder Bay system and is delivered to the Steep Rock Iron Mines and the Ontario-Minnesota Pulp and Paper Company at Fort Frances.

On Manitoulin Island the average load sold in 1944 was 548 horsepower, an increase of 18.1 per cent.

## SECTION IV

### RURAL ELECTRICAL SERVICE IN ONTARIO

MANY important steps were taken by the Commission in 1944 which will have far-reaching effects in hastening the time when, throughout Ontario, Hydro service in rural districts will be given wherever it is practicable to extend distribution lines.

As from January 1, 1944 the Commission put into operation a comprehensive revision of its rural service which is, without doubt, the greatest step forward since the formation of rural power districts in 1920, and the subsequent grants-in-aid inaugurated by the Province, in 1921 and extended in 1924, in connection with its well established policy of assistance to agriculture.

The chief feature of the new set-up for rural service is the establishment for rural districts of a uniform rate structure with a common rate applicable to each class of service. Thus, no matter where rural service is given in Ontario by the Hydro the rural consumer for the same class of service with the same consumption of electricity will pay the same amount on his quarterly bill.

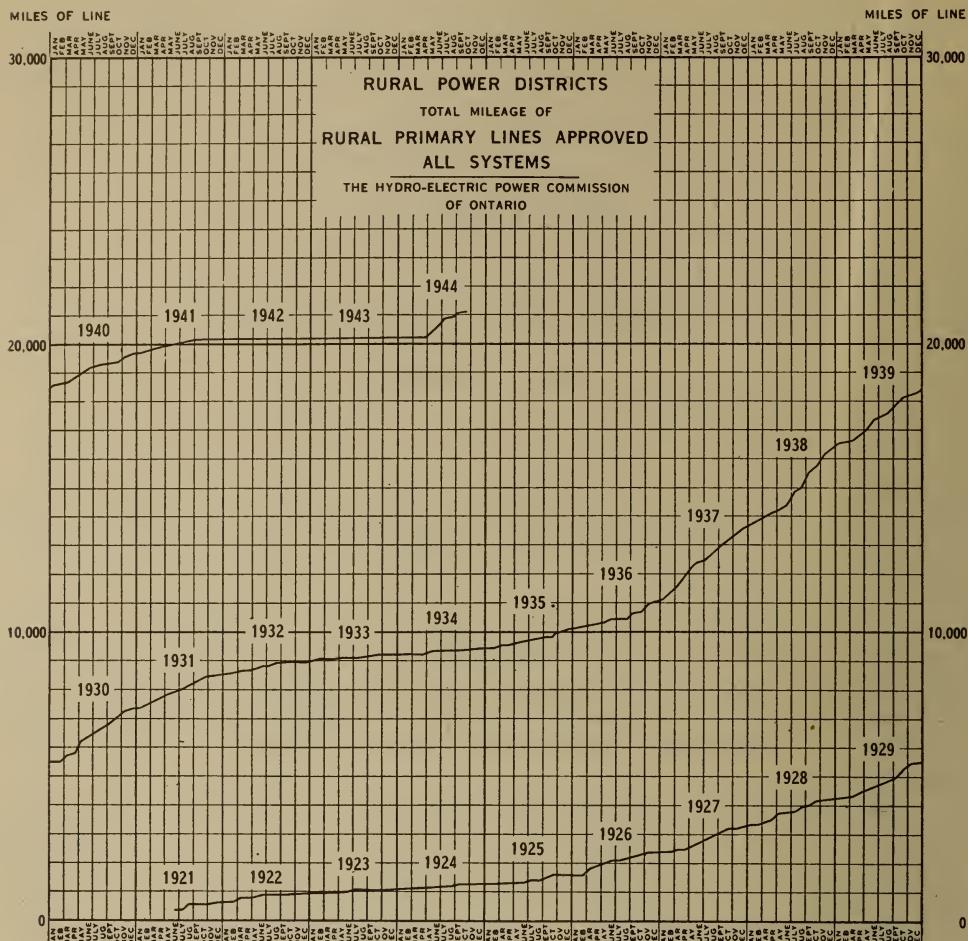
Although, for convenience of administration, the local rural power district areas will be retained as administrative units, the whole rural service is amalgamated into one rural power division of Hydro service, with a pooling of all revenues and expenses. This rural amalgamation and unification of rates is made possible by the financial assistance given by the Province as part of its aid to agriculture. The extent and effect of the Province's financial assistance with respect to the distribution of power in rural districts should, therefore, be clearly understood.

#### Provincial Assistance

The government grant-in-aid of 50 per cent of the capital cost of lines and equipment for the supply of power, relates solely to the initial capital investment for distribution facilities in rural power districts.

Having made this grant-in-aid the government further participates in the operation of the province-wide Hydro rural service in that it guarantees the Commission against loss due to the fixing of a maximum service charge or its reduction or removal.\*

\*Consult "An Act To Amend The Rural Power District Service Charge Act" in Appendix I of this Report.

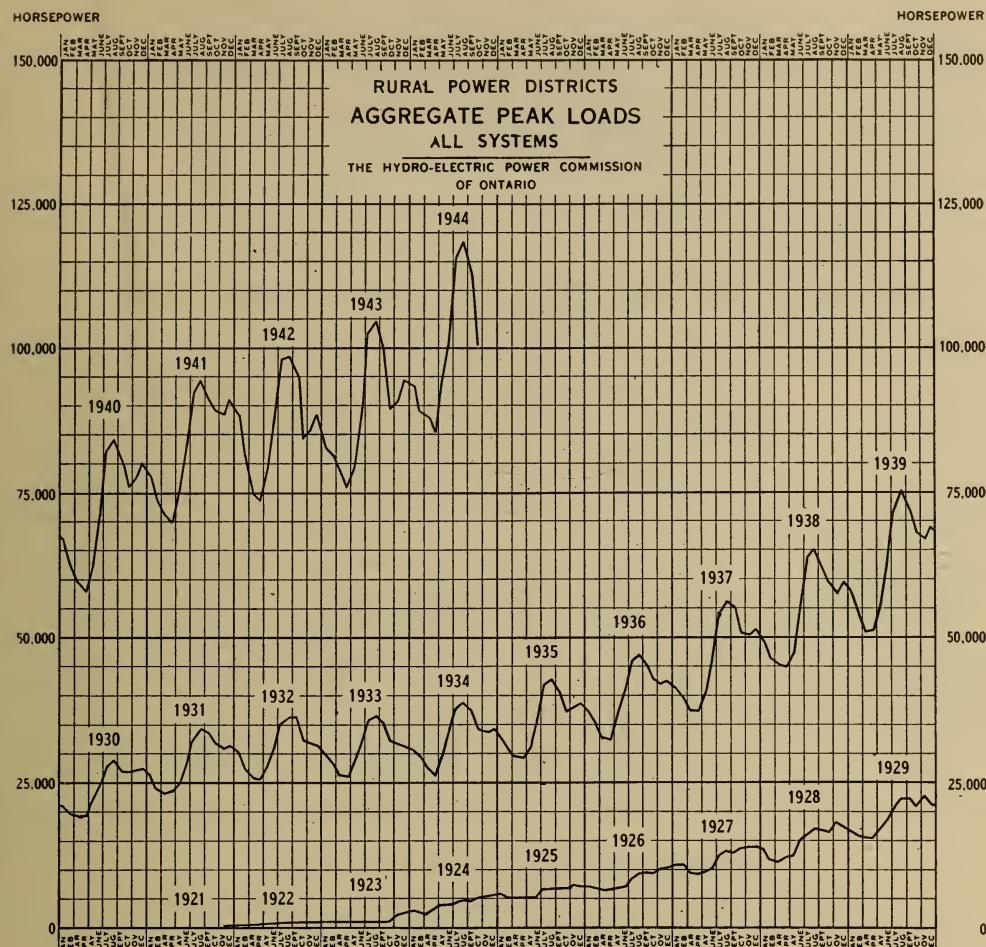


The new set-up is a means of apportioning the benefits from provincial assistance where they will do most good: namely, to the farmer in sparsely settled and less fertile farming districts where, because of these conditions, electrical service is necessarily more costly to provide.

#### Status of Rural Service in 1944

In 1944 rural service in Ontario was given through 120 operating administrative units which, for convenience, will continue to be referred to as rural power districts. Power was delivered to approximately 146,633 rural consumers, comprising farms and dwellings in various groups. The consumers are situated in 434 organized townships; 23 unorganized townships and 121 police villages, villages and small towns and are served over a network of rural primary lines which aggregate 21,023 miles. In addition to the 457 townships served by rural power districts, 10 townships are served jointly by rural power districts and voted areas.

The restrictions in the use of materials which enter into rural line construction were continued with broadening modifications during 1944. On



March 28, 1944, the Metals Controller for Canada issued an order, M.C. 23A, which allowed, without a permit, the use of not more than 500 pounds of non-ferrous metals for any one job in the construction of services to permanent residences, and not more than 100 pounds in the case of seasonal residences and business premises. Where larger quantities are required, special permits from the Metals Controller must be obtained. Other factors, however, somewhat offset the easing of the restrictions of the Dominion Government. The chief of these was the scarcity of certain materials and equipment; another was the shortage of labour due to war-time conditions—most of the Commission's line crews had to carry on with greatly reduced numbers. For these reasons the Commission was unable to supply service to new consumers as promptly as otherwise would have been possible.

During the past year the mileage of rural-line extensions, approved for construction in rural power districts in Ontario, was 927. The net increase in the number of consumers after allowance for cancellation was 10,292. See tables and footnote on page 48.

The average aggregate peak load\* supplied to all rural Hydro consumers, including war industries in rural areas in the Province, amounted to 98,572 horsepower, an increase of 11.75 per cent over 1943. The delivery of power during the winter months, was less than it would have been due to restrictions imposed by the Dominion Power Controller, and to voluntary economies by consumers. These restrictions were removed on October 1, 1944.

\*Average aggregate peak load is the summation of the twelve monthly peak loads for each and all rural power districts, divided by twelve.

#### RURAL LINE EXTENSIONS APPROVED BY THE COMMISSION DURING THE YEAR 1944

System	Miles of primary line	Net increase in number of consumers			Power supplied in October 1944	Capital approved for extensions	
		Farm	Non-farm	Total		Total	Provincial grant-in-aid
Southern Ontario					h.p.	\$ c	\$ c
Niagara division....	456.29	3,661	2,373	6,034	71,340	1,766,196	883,098
Georgian Bay div. .	144.40	735	634	1,369	8,313	415,402	204,933
Eastern Ontario div.	297.10	1,597	906	2,503	17,700	929,406	464,703
Southern Ont. totals..	897.79	5,993	3,913	9,906	97,353	3,111,004	1,552,734
Thunder Bay.....	7.04	36	84	120	756	26,392	13,196
Northern Ontario Properties.....	21.83	48	218	266	2,405	93,082	46,541
Totals.....	926.66	6,077	4,215	10,292	100,514	3,230,478	1,612,471

#### SUMMARY OF RURAL LINE EXTENSIONS

Approved by the Commission from June 1, 1921 to October 31, 1944  
Constructed or Under Construction

System	Miles of primary line	Number of consumers			Capital approved for extensions	
		Farm	Non-farm	Total	Total	Provincial grant-in-aid
Southern Ontario					\$ c	\$ c
Niagara division....	12,233	41,845	48,186	90,031	30,845,914.89	15,399,677.44
Georgian Bay div... .	3,211	6,327	13,826	20,153	7,134,257.95	3,477,010.49
Eastern Ontario div.	4,931	12,405	18,732	31,137	12,004,137.31	6,002,068.65
Southern Ont. totals..	20,375	60,577	80,744	141,321	49,984,310.15	24,878,756.58
Thunder Bay.....	295	615	907	1,522	650,871,00	325,435.50
Northern Ontario Properties.....	353	506	3,284	3,790	1,115,490.00	557,745.00
Totals.....	*21,023	61,698	84,935	146,633*	51,750,671.15	25,761,937.08

\*These totals include 586 miles of primary line under construction on October 31, 1944, and service to 2,415 new consumers, not completed until after the end of the fiscal year.

## **NEW UNIFORM RURAL RATE STRUCTURE**

A new uniform rural rate structure, for the sale of energy, was placed in effect on January 1, 1944, for all rural Hydro service throughout the Province, and replaces the numerous rural rate schedules previously in effect.

The new energy rates consist, essentially, of a three-step energy charge, as follows:

1. A first block or number of kilowatt-hours of energy consumption in the billing period, charged for at 4 cents gross per kilowatt-hour;
2. A second block or number of kilowatt-hours of energy consumption in the billing period, charged for at 1.6 cents gross per kilowatt-hour; and
3. All remaining kilowatt-hours of energy consumption in the billing period, charged for at 0.75 cents gross per kilowatt-hour.

In addition, the service charge in use prior to January 1, 1944, has been eliminated in the case of Farm and Commercial service, reduced by 50 per cent in the case of Hamlet service and changed to an annual fixed charge in the case of Summer service.

Under the new rate schedules, rural service is now available in four main classes. All rural contracts for service carry a symbol consisting of a letter indicating the classification of the contract, followed by a number which indicates the demand rating or permissible demand in kilowatts contracted for. These classes and symbols are: Farm service, F; Hamlet service, H; Commercial service, C, and Summer service, S.

The following is the rate schedule for each main class of service with minimum demand rating:

## RATE SCHEDULES FOR RURAL SERVICE—MINIMUM DEMAND

Class and minimum rating	Demand	Service charge per month	Energy consumption per month			Minimum bill (gross) per month	
			at 4 cents per kw-hr	at 1.6 cents per kw-hr	at 0.75 cents per kw-hr		
F3 H2 (2 wire) H3 (3 wire) C2	kw 3 2 3 2	cents Nil 56 56 Nil	kw-hrs 60 40 40 60	kw-hrs 180 80 180 120	kw-hrs Balance Balance Balance Balance	\$ c 2.25 1.67 2.25 1.50	
			Energy consumption per year				
			Annual fixed charge	at 4 cents per kw-hr	at 1.6 cents per kw-hr	at 0.75 cents per kw-hr	Minimum bill per year
			11.11	150	450	Balance	Annual fixed charge
			Prompt payment discount—10 per cent				
	S2	2	Prompt payment discount—10 per cent				
			Prompt payment discount—10 per cent				
			Prompt payment discount—10 per cent				
			Prompt payment discount—10 per cent				
			Prompt payment discount—10 per cent				

For higher demands, above the minimum rating, add to the minimum rating set out above, for each additional kilowatt, the following:

**RATE SCHEDULES FOR RURAL SERVICE—  
ADDITIONAL CHARGES AND CONSUMPTIONS FOR EXTRA DEMAND**

Class	Additional service charge per month per kw	Energy consumption per month per kw.			Addition to minimum bill (gross) per month per kw
		at 4 cents per kw-hr	at 1.6 cents per kw-hr	at 0.75 cents per kw-hr	
F4, F5, etc. H4, H5, etc. C3, C4, etc.	Nil	kw-hrs 20	kw-hrs 60	kw-hrs Balance	\$ c 0.75
	No increase	20	60	Balance	0.75
	Nil	30	60	Balance	0.75
	Additional annual fixed charge	Energy consumption per year per kw.			Minimum bill per year
		at 4 cents per kw-hr	at 1.6 cents per kw-hr	at 0.75 cents per kw-hr	
	\$ c 3.33*	kw-hrs 75	kw-hrs 225	kw-hrs Balance	Annual fixed charge
Prompt payment discount—10 per cent					

\*Yearly minimum fixed charge for all summer classes above \$2—\$15.56 (gross), or \$3.33 (gross) per kw of demand, whichever is the greater.

**DESCRIPTION OF MAIN CLASSES OF HYDRO RURAL SERVICE**

Beginning January 1, 1944 electrical service is supplied in rural power districts under four main classes described below. When the class of service which will meet the requirements of the individual consumer has been chosen, contracts are executed between the consumer and the corporation of the township concerned.

**Farm Service**

Farm service shall be considered to be service to property having lands used for the production of food stuff or industrial crops for sale and from which a substantial livelihood is obtained. It shall include electrical service to all farm buildings and equipment situated on the farm and used for farm purposes, including buildings and equipment required for processing the products of the customer's farm.

Service under a single farm contract may be supplied to all dwellings or separate domestic establishments situated on the farm property and occupied by persons who are regularly engaged in the operation of the farm.

Additional dwellings or domestic establishments situated on a farm property and occupied by persons not regularly engaged in the operation of the farm, if served, shall be classed as hamlet contracts and rated accordingly. Small properties of five acres and less will be classed as hamlet services except under special circumstances which would justify a farm classification.

The minimum demand of a farm service for billing purposes shall be taken as three kilowatts.

**Hamlet Service**

Hamlet service shall be considered to be service to a domestic establishment or residence in a rural or in a small suburban community served as part of a rural power district. This class shall include isolated rural residences.

The demand rating of a two-wire hamlet service will be taken as two kilowatts and will be limited by a 20-ampere breaker or a 30-ampere fuse. Where the hamlet service exceeds two kilowatts, three-wire service shall be supplied and the minimum demand for a three-wire service shall be three kilowatts.

**Commercial Service**

Commercial service shall be considered to be service to community or business premises including schools, churches, public halls, hospitals, hotels, public boarding houses, tourist camps, business and professional offices, stores, repair shops, garages, gasoline stations, blacksmith and woodworking shops, small manufacturing and processing plants, chick hatcheries, sign and display lighting and all other premises used for commercial or community purposes.

Single-phase power only will be supplied under a commercial contract. Where three-phase power is required, the service will be classed as an "Industrial power service."

The minimum demand rating of a commercial contract shall be two kilowatts for a two-wire service and three kilowatts for a three-wire service.

**Summer Service**

Summer service is applicable to properties where service is used normally only during the summer months and which are not established as the consumer's permanent residence. This service is not limited to cottages, but may include summer hotels, tourist camps, refreshment booths and other commercial premises.

The demand rating of a two-wire summer service will be taken as two kilowatts and will be limited to a maximum of a 20-ampere breaker or a 30-ampere fuse. Where the summer service exceeds two kilowatts, three-wire service shall be supplied and the minimum demand for a three-wire service shall be three kilowatts.

**FIVE-YEAR PLAN FOR FUTURE RURAL DEVELOPMENT**

A preliminary estimate of the ultimate development of rural service in this Province, which can be foreseen at the present time, based on the minimum density of two farm contracts per mile of line, indicates that a total of 35,080 miles of line would be required to serve a total of 241,205 consumers, of whom 111,877 would be farm consumers.

As shown in the following table, 60 per cent of this mileage has already been constructed, serving 61 per cent of the total consumers and 55 per cent of the farmers:

## PRESENT STATUS OF DEVELOPMENT

	Miles of line	Consumers		
		Farm	Non-farm	Total
Preliminary estimate of ultimate development.....	35,080	111,877	129,328	241,205
Existing development at October 31, 1944.....	21,023	61,698	84,935	146,633
Existing development as per cent of ultimate.....	60	55	66	61

The following estimates of growth for the next five years will depend upon the availability of labour and material and the maintenance of income of rural residents at a level which will permit them to invest in wiring, electrical equipment and other improvements.

## ESTIMATED DEVELOPMENT FOR FIVE-YEAR POST-WAR PERIOD

	Miles of line	Consumers to be added		
		Farm	Non-farm	Total
First year.....	1,135	7,579	6,023	13,602
Second year.....	2,151	7,625	6,339	13,964
Third year.....	1,532	6,243	4,937	11,180
Fourth year.....	1,357	5,664	4,438	10,102
Fifth year.....	1,154	5,056	4,000	9,056
Total for five-year period.....	7,329	32,167	25,737	57,904

The status of rural development at the end of the five-year period is set out in the table below:

## STATUS AT THE END OF FIVE-YEAR PERIOD

	Miles of line	Total consumers served		
		Farm	Non-farm	Total
At the end of five-year period.....	28,352	93,865	110,672	204,537
Percentage of ultimate.....	80	84	86	85

## Rural Loans

Under The Rural Power District Loans Act, 1930, authority was given to The Hydro-Electric Power Commission of Ontario to finance the installation of wiring and the purchase of specified electrical equipment by rural farm consumers.

Owing to the necessity to conserve funds for war purposes this financing was discontinued on October 31, 1940. Up to the time 1,776 loans had been granted, amounting to \$360,852. Details are as given in previous Annual Reports.

To October 31, 1944, 1,761 loans had been repaid in full, either through the maturing of the loan or by being paid in advance by the borrower.



**HYDRO POWER CUTS FIREWOOD FOR THE FARM**

Three-horsepower motor with switchgear, supported on mobile stand

#### FARM USES FOR ELECTRICITY

The use made of electrical service by farmers divides itself broadly into applications which provide a higher standard of living in the farm home, and applications which add to the productive capacity of a farm. Some applications, for example, lighting and water pumping, do both.

Farming is a productive industry and the ability of electrical service to provide light, heat and power in a wide range of intensities free from the hazards associated with oil or other fuel and the ease with which electricity may be controlled, permit applications to farm production problems not feasible with any other source of power.

These applications result in savings in labour, increased production, improved quality, prevention of waste, reduced costs and substantial increases in earnings.

To the farm home electricity can bring the same conveniences as are enjoyed by urban residents. It eliminates the drudgery of many household tasks, improves health and comfort and, through the radio, furnishes entertainment, news, discussions of current topics and market reports, all of which bring greater contentment in the rural way of life.

In building up his electrical equipment to receive the maximum benefit from Hydro rural service, the farmer should keep a nice balance between appliances for use in the home and appliances which will add to the productive



#### MILK COOLING BY ELECTRIC REFRIGERATION

Now being used by progressive Ontario farmers to their economic advantage

capacity of his farm. It is especially desirable that following the installation of lighting service in the home and outbuildings his early concern should be to purchase equipment which will result in cash returns.

#### Lighting Service

Electric lighting is safe, convenient and reduces the fire hazard to a minimum. It adds comfort and attractiveness to the farm home. In the barn and other buildings it saves time and prevents accidents while doing chores.

In productive operations it is used in the poultry laying house to supplement daylight during the winter months, thus increasing egg production during a period when prices are highest.

In floriculture lighting may be used to promote or retard the flowering of certain flowering plants in order to meet the demand of special occasions.

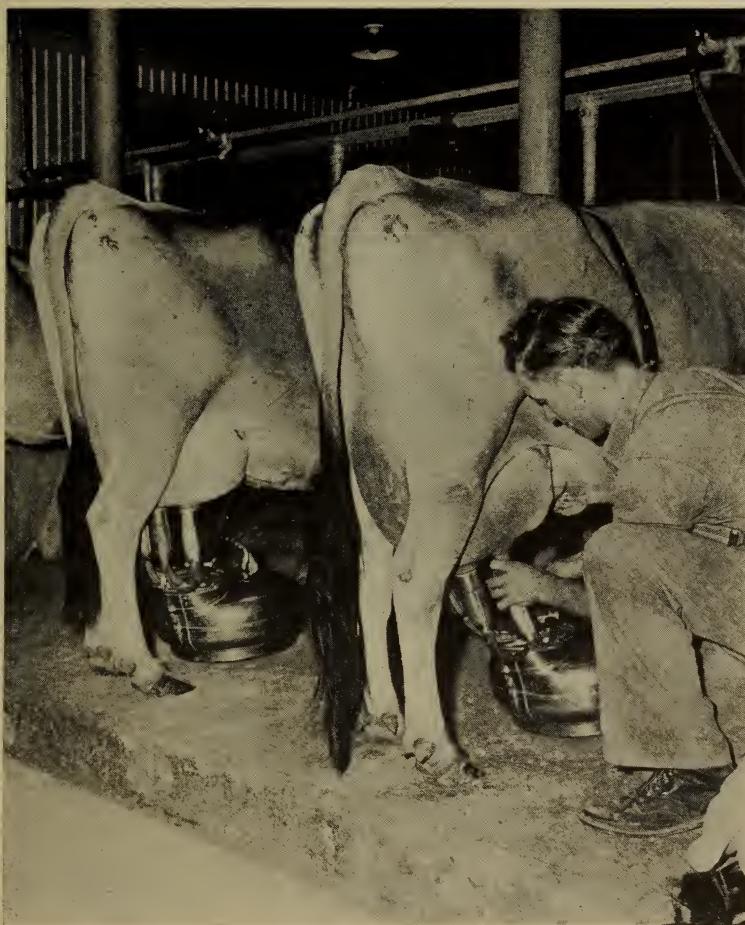
Special applications of lighting include insect traps, infra-red lamps for brooders and ultra-violet lamps to improve the health of poultry and other stock.

### Heating Service

The safety and ease of control of electricity as a source of heating has found many applications. In the home it makes possible many of the familiar appliances, such as irons, toasters, hot plates, electric ranges and water heaters, all of which add to the comfort and convenience of the home. The ease of automatic control of electric heat has found application in incubators and poultry brooders, where accurate control of temperature is necessary.

Water heaters and dairy sterilizing equipment assist in maintaining a high quality of milk production. Small capacity heaters are used to maintain drinking water at suitable temperature for poultry, with resultant increases in egg production during the winter months. It also finds application in brooders for pigs and lambs, preventing loss of these animals during cold weather and effecting very substantial savings and increased earnings.

In horticulture electric soil heating is used for the early germination and propagation of seeds and plants and their protection against frost.



ELECTRIC MILKING IN RURAL ONTARIO

Electric milking machines assure cleaner milk and save greatly on labour



ELECTRIC BROODER

Maintains uniform temperature and reduces fire hazard

#### Power for Electric Motors

Electric motors find many uses in replacing manual effort. A quarter-horsepower motor can operate any machine that can be operated by hand, thus effecting savings in time and effort.

In the home motors make possible washing machines, ironing machines, vacuum cleaners, fans, furnace blowers, water pumps and refrigerators and the new cold storage home locker for the preservation and storage of perishable foods in quantity. Thus, motors contribute towards making the farm home equal in comfort and convenience to the urban home.

In farming operations electric motors are used for grinding grain and the operation of feed mixers, effecting substantial cash savings. They are also used for pumping water for stock and the operation of milking machines, cream separators and milk coolers. These result in very substantial savings in labour, and increases in production, and permit the handling of larger herds, effecting increases in farm earnings.

Portable utility motors of various sizes find many applications, such as wood cutting, hoisting hay, elevating grain, seed cleaning and, in the workshop, motor-driven grinders and other equipment provide facilities for maintaining farm equipment in repair and facilitate the construction of various pieces of useful equipment in connection with farming operations.

Estimates of the major electrical appliances used in rural districts are set out in the following table:

**ELECTRICAL APPLIANCES IN USE AMONG FARM CONSUMERS IN  
RURAL POWER DISTRICTS**

Data for all systems for the year 1942

On the farm			In the farm home		
Item	Number of appliances	Percentage of saturation	Item	Number of appliances	Percentage of saturation
Motor.....	11,240	18.0	Range.....	11,688	18.7
Pump.....	10,186	16.3	Hot plates.....	14,921	23.9
Grain grinder.....	4,293	6.9	Washers.....	40,014	64.2
Milking machine.....	3,920	6.3	Vacuum cleaners.....	10,651	17.1
Milk cooler.....	1,517	2.4	Water heaters, flat rate.....	2,739	4.4
Cream separator.....	5,302	8.5	Water heaters, metered.....	1,481	2.4
Churn.....	656	1.1	Grates.....	539	0.9
Incubator.....	828	1.3	Portable air heaters.....	4,970	7.9
Brooder.....	1,550	2.5	Ironers.....	938	1.5
Hot bed.....	56	0.1	Hand irons.....	50,314	80.7
Water heater, flat rate.....	181	0.3	Refrigerators.....	10,913	17.5
Water heated, metered.....	113	0.2	Toasters.....	35,465	56.9
Miscellaneous.....	861	1.4	Radios.....	49,747	79.8
			Furnace blowers.....	1,393	2.2
			Pumps.....	10,480	16.8
			Miscellaneous.....	2,276	3.6

The following table makes comparison between rural and urban use:

**ELECTRICAL APPLIANCES IN USE IN HOMES OF URBAN AND RURAL  
CONSUMERS—1942**

Electrical appliances	R.P.D. Hamlet		R.P.D. Farm		Urban	
	Number of appliances	Percentage of saturation	Number of appliances	Percentage of saturation	Number of appliances	Percentage of saturation
Ranges.....	7,243	13.4	11,688	18.7	166,498	29.7
Hot plate.....	13,524	25.0	14,921	23.9	91,260	16.3
Washer.....	28,270	52.2	40,014	64.2	359,428	64.0
Vacuum cleaner.....	9,730	18.0	10,651	17.1	270,067	48.1
Water heater, flat rate.....	2,408	4.4	2,739	4.4	75,241	13.4
Water heater, metered.....	1,303	2.4	1,481	2.4	75,321	13.4
Grate.....	420	0.8	539	0.9	50,619	9.0
Air heater.....	3,992	7.4	4,970	7.9	62,383	11.1
Ironers.....	914	1.7	938	1.5	19,685	3.5
Irons.....	41,751	77.0	50,314	80.7	561,912	100.1
Refrigerators.....	10,184	18.8	10,913	17.5	218,922	39.0
Toasters.....	29,240	53.9	35,465	56.9	439,971	78.4
Radio.....	42,033	77.5	49,747	79.8	577,309	102.8
Furnace blower.....	1,269	2.3	1,393	2.2	62,338	11.1
Grills.....					126,650	22.6
Pump.....	7,112	13.1	10,480	16.8		
Air-conditioner.....					10,202	1.8
Miscellaneous.....	2,532	4.7	2,276	3.6		

### Average Cost to Rural Consumers Decreasing

The remarkable benefits obtained by rural communities in regard to the amount charged to them during the period 1928 to 1943 are indicated in the following tables:

The classification of rural consumers, and the rates charged have been changed for the year 1944. The result of the application of rates in force, from time to time during the period 1928 to 1943, will not be comparable to the application of 1944 classification and rates. The 1944 results will appear in the 1945 Report.

### HAMLET AND HOUSE LIGHTING SERVICE

#### Classes 1B, 1C and 2A

	Annual Revenue	Kilowatt-hours consumed	Number of consumers billed*	Average revenue per kw-hr.	Average monthly bill	Average monthly consumption—kw-hr.
1928	\$ 530,407.00	10,702,031	17,585	cents 4.95	\$ 2.51	50.7
1929	663,311.00	14,424,770	21,219	4.60	2.85	62.0
1930	757,558.00	17,815,987	25,013	4.25	2.73	64.2
1931	974,224.17	22,127,474	31,176	4.40	2.88	65.6
1932	1,075,081.03	24,654,386	33,638	4.36	2.76	63.3
1933	1,133,368.70	25,410,470	35,941	4.46	2.70	60.1
1934	1,149,876.67	27,768,460	37,466	4.14	2.61	63.0
1935	1,171,873.28	30,802,290	39,751	3.80	2.53	66.5
1936	1,239,010.83	35,666,241	43,014	3.47	2.49	71.8
1937	1,331,919.46	40,935,040	46,785	3.25	2.47	76.0
1938	1,439,681.39	47,612,820	52,514	3.02	2.42	79.9
1939	1,649,496.29	54,787,544	58,328	3.01	2.36	78.3
1940	1,812,550.53	60,839,240	62,973	2.98	2.40	80.5
1941	1,995,468.46	67,587,082	67,939	2.95	2.45	82.9
1942	2,118,911.57	72,613,472	69,766	2.92	2.56	87.9
1943	2,170,221.41	73,980,871	70,916	2.93	2.57	87.6

\*It may be observed that the number of consumers reported here does not agree with those shown in other sections of the Annual Report of the Commission. This is due to the fact that the figures given here represent consumers actually billed, but do not include power or special contracts, whereas elsewhere in the Report the tables show the number of contracts executed to the end of the fiscal year. In many cases service is not given until the following year.



**FARM SERVICE**  
**Classes 2B, 3, 4, 5, 6A, 6B, 7A and 7B**

Year	Annual revenue	Kilowatt-hours consumed	Number of consumers billed*	Average revenue per kw-hr.	Average monthly bill	Average monthly consumption—kw-hrs.
1928	\$ 569,007.00	10,969,828	9,309	cents 5.18	\$ c. 4.97	96
1929	777,736.00	16,022,842	12,605	4.85	5.85	121
1930	863,805.00	20,507,063	16,011	4.21	5.03	119
1931	1,128,554.28	25,716,141	20,796	4.39	5.11	116
1932	1,255,482.13	28,675,400	22,432	4.38	4.84	110
1933	1,309,122.96	30,062,194	23,283	4.35	4.75	109
1934	1,319,922.69	33,312,314	23,882	3.96	4.66	118
1935	1,343,222.39	37,667,453	25,357	3.57	4.55	128
1936	1,385,784.39	45,447,669	28,198	3.05	4.31	141
1937	1,366,484.50	54,858,240	35,508	2.49†	3.57	144†
1938	1,711,788.81	67,886,882	44,565	2.52†	3.56	141†
1939	2,090,259.14	81,613,087	53,240	2.56†	3.56	139†
1940	2,405,092.40	93,859,719	58,728	2.56†	3.41	133†
1941	2,690,250.37	107,061,610	63,304	2.51	3.54	141
1942	2,870,300.31	116,448,363	63,748	2.46	3.75	152
1943	2,934,011.31	121,428,714	64,292	2.42	3.81	158

\*See footnote to previous table.

†In the period 1937 to 1940, there was an increase in the statistical average revenue per kilowatt-hour and a decrease in the statistical average monthly consumption per consumer. Actually there was a great increase in the use of electricity by nearly all individual Hydro consumers and a corresponding decrease to each consumer in the average cost per kilowatt-hour. But due to the tremendous growth at this time in new consumers, who for the first few years are not equipped to use large quantities of electricity each month, the smaller monthly consumption of the new consumers when averaged with the increased use of the older consumers produced per consumer averages which obscured the true trends of individual growth in use, and, individual reductions in costs.

**RURAL POWER DISTRICTS**  
**MILES OF LINE, NUMBER OF CONSUMERS—OCTOBER 31, 1944**

Control office location	Rural power district	Miles of line	Number of consumers					
			Farm	Hamlet	Commercial	Summer	Power	Total
Southern Ontario System—								
Niagara Division								
Aylmer.....	Aylmer.....	291.41	1,130	548	133	85	3	1,899
Beamsville.....	Beamsville.....	263.74	1,384	661	127	141	16	2,329
Blenheim.....	Blenheim.....	104.70	443	164	35	65	3	710
Richmond Hill.....	Bond Lake.....	221.03	716	1,576	119	197	20	2,628
Bothwell.....	Bothwell.....	275.80	784	180	89	.....	15	1,068
Brampton.....	Brampton.....	201.36	550	262	50	12	5	879
	Streetsville.....	139.38	477	250	28	46	9	810
Brantford.....	Brant.....	208.66	886	383	50	5	9	1,333
	Burford.....	266.08	947	363	93	3	.....	1,406
Chatham.....	Chatham.....	244.67	942	648	95	.....	11	1,696
Delaware.....	Delaware.....	211.47	723	289	94	.....	3	1,109
	Strathroy.....	175.75	526	66	42	.....	1	635
Dorchester.....	Dorchester.....	163.31	655	243	67	3	7	975
Dundas.....	Dundas.....	184.09	718	540	66	.....	6	1,330
	Lynden.....	92.97	308	113	30	.....	1	452

**Southern Ontario System—**  
**Niagara Division**

Aylmer.....	Aylmer.....	291.41	1,130	548	133	85	3	1,899
Beamsville.....	Beamsville.....	263.74	1,384	661	127	141	16	2,329
Blenheim.....	Blenheim.....	104.70	443	164	35	65	3	710
Richmond Hill.....	Bond Lake.....	221.03	716	1,576	119	197	20	2,628
Bothwell.....	Bothwell.....	275.80	784	180	89	.....	15	1,068
Brampton.....	Brampton.....	201.36	550	262	50	12	5	879
	Streetsville.....	139.38	477	250	28	46	9	810
Brantford.....	Brant.....	208.66	886	383	50	5	9	1,333
	Burford.....	266.08	947	363	93	3	.....	1,406
Chatham.....	Chatham.....	244.67	942	648	95	.....	11	1,696
Delaware.....	Delaware.....	211.47	723	289	94	.....	3	1,109
	Strathroy.....	175.75	526	66	42	.....	1	635
Dorchester.....	Dorchester.....	163.31	655	243	67	3	7	975
Dundas.....	Dundas.....	184.09	718	540	66	.....	6	1,330
	Lynden.....	92.97	308	113	30	.....	1	452

**RURAL POWER DISTRICTS**  
**MILES OF LINE, NUMBER OF CONSUMERS—OCTOBER 31, 1944**

Control office location	Rural power district	Miles of line	Number of consumers					
			Farm	Hamlet	Commercial	Summer	Power	Total
<b>Niagara Division</b> <i>Continued</i>								
West Lorne.....	Dutton.....	131.86	323	109	34	12	4	482
Elmira.....	Elmira.....	159.86	366	276	42	1	6	691
	St. Jacobs.....	108.57	253	295	49	14	7	618
Essex.....	Essex.....	240.13	1,027	421	63	223	6	1,740
Exeter.....	Exeter.....	158.82	486	299	75	387	7	1,254
Forest.....	Forest.....	240.97	728	73	40	205	5	1,051
Clinton.....	Goderich.....	208.94	532	299	59	217	6	1,113
	Walton.....	128.09	351	195	55	.....		601
Guelph.....	Guelph.....	193.25	543	494	50	8	8	1,103
	Milton.....	135.48	356	160	47	80	4	647
Cayuga.....	Haldimand.....	233.16	669	306	107	92	11	1,185
	Dunnville.....	96.63	275	181	42	115	2	615
Harrow.....	Harrow.....	197.32	862	334	58	804	3	2,061
Ingersoll.....	Ingersoll.....	256.58	771	218	49	.....	3	1,041
Sutton.....	Keswick.....	200.20	456	635	73	1,212	10	2,386
Kingsville.....	Kingsville.....	204.66	1,165	414	81	711	8	2,379
Listowel.....	Listowel.....	340.93	965	365	85	.....	5	1,420
London.....	London.....	250.98	894	2,335	139	7	12	3,387
Lucan.....	Lucan.....	182.81	476	74	51	.....		601
Markham.....	Markham.....	302.74	1,112	1,581	134	665	13	3,505
Merlin.....	Merlin.....	293.75	1,004	207	84	99	9	1,403
Mitchell.....	Mitchell.....	151.27	471	182	55	.....	3	711
	St. Marys.....	224.05	739	182	61	.....	3	985
	Seaforth.....	42.39	109	109	11	.....		229
St. Catharines.....	Niagara.....	210.60	1,154	1,565	115	134	22	2,990
Norwich.....	Norwich.....	179.59	763	161	44	.....	6	974
Oil Springs.....	Oil Springs.....	207.05	574	125	64	1	3	767
Kitchener.....	Preston.....	203.76	600	1,040	92	103	16	1,851
	Baden.....	153.89	516	236	67	15	8	842
	Galt.....	56.81	163	399	18	.....	3	583
Ridgetown.....	Ridgetown.....	139.06	439	157	45	339	3	983
St. Thomas.....	St. Thomas.....	249.38	875	833	112	4	7	1,831
Stoney Creek.....	Saltfleet.....	108.77	390	1,994	81	216	21	2,702
	Caledonia.....	222.22	757	538	80	.....	6	1,381
Windsor.....	Sandwich.....	166.69	597	3,381	131	.....	18	4,127
Sarnia.....	Sarnia.....	135.83	458	1,315	83	521	2	2,379
	Brigden.....	101.96	289	24	22	16	.....	351
Simcoe.....	Simcoe.....	150.99	563	385	64	78	4	1,094
	Walsingham.....	473.44	1,646	572	122	371	3	2,714
Stratford.....	Stratford.....	63.89	208	128	26	.....	2	364
Stratford.....	Tavistock.....	147.26	492	130	38	.....	2	662
Tillsonburg.....	Tillsonburg.....	212.78	847	427	79	.....	7	1,360
Wallaceburg.....	Wallaceburg.....	199.89	677	465	73	69	5	1,289
	Dresden.....	114.05	366	33	25	.....		424
Burlington.....	Waterdown.....	98.41	446	951	52	33	25	1,507
Welland.....	Welland.....	370.34	1,238	2,791	186	684	36	4,935
	Chippawa.....	42.40	120	157	34	.....	3	314
Woodbridge.....	Woodbridge.....	299.14	847	917	113	103	21	2,001
Woodstock.....	Woodstock.....	196.14	698	359	75	1	6	1,139
Total Niagara	division.....	12,232.20	41,845	35,113	4,503	8,097	473	90,031

**RURAL POWER DISTRICTS**  
**MILES OF LINE, NUMBER OF CONSUMERS—OCTOBER 31, 1944**

Control office location	Rural power district	Miles of line	Number of consumers							
			Farm	Hamlet	Commercial	Summer	Power	Total		
<b>Southern Ontario System</b>										
<b>Georgian Bay Division</b>										
Bala.....	Bala.....	108.46	28	166	40	476	.....	710		
Barrie.....	Barrie.....	190.23	488	451	83	447	2	1,471		
	Alliston.....	265.59	679	433	72	1,118	3	2,305		
Bracebridge.....	Beaumaris.....	103.06	143	155	22	386	2	708		
	Utterson.....	65.25	100	85	18	171	.....	374		
Bracebridge.....	Baysville.....	75.69	101	109	24	231	.....	465		
Walkerton.....	Bruce.....	276.09	694	354	110	132	6	1,296		
	Holstein.....	47.03	102	26	7	4	.....	139		
Erin.....	Caledon.....	.....	.....	.....	.....	.....	.....	.....		
Cannington.....	Cannington.....	92.89	191	87	30	88	2	398		
Cannington.....	Beaverton.....	63.08	82	112	23	412	.....	629		
Orillia.....	Hawkestone.....	98.02	183	117	28	216	.....	544		
	Sparrow Lake.....	81.73	76	183	28	448	6	741		
	Gravenhurst.....	17.99	12	37	5	57	2	113		
Huntsville.....	Huntsville.....	129.73	104	390	75	196	1	766		
Penetanguishene.....	Midland.....	213.77	391	195	78	943	.....	1,607		
Owen Sound.....	Owen Sound.....	59.34	146	65	15	84	.....	310		
	Tara.....	348.71	628	640	144	270	5	1,687		
Shelburne.....	Shelburne.....	317.34	681	285	62	35	.....	1,063		
Uxbridge.....	Uxbridge.....	238.25	531	560	91	333	2	1,517		
Stayner.....	Wasaga Beach.....	27.25	1	52	.....	1,450	1	1,504		
	Creemore.....	161.72	440	199	55	6	1	701		
Wingham.....	Wroxeter.....	229.64	526	358	100	117	4	1,105		
Total Georgian	Bay division.....	3,210.86	6,327	5,059	1,110	7,620	37	20,153		

**Southern Ontario System**  
**Eastern Ontario Division**

Arnprior.....	Arnprior.....	82.12	149	473	98	48	13	781
	Renfrew.....	88.13	177	326	73	29	6	611
Belleville.....	Belleville.....	161.91	490	722	74	10	4	1,300
Bowmanville.....	Bowmanville.....	147.40	341	286	41	19	3	690
Brockville.....	Brockville.....	300.17	794	749	192	244	10	1,989
Carleton Place.....	Carleton Place.....	54.82	115	44	13	20	1	193
Cobourg.....	Cobourg.....	316.03	726	557	117	231	1	1,632
Fenelon Falls.....	Fenelon Falls.....	181.82	253	190	48	694	1	1,186
	Minden.....	80.75	97	219	46	180	.....	542
	Omemeet.....	33.93	57	12	11	25	.....	105
Frankford.....	Frankford.....	261.61	722	465	77	45	4	1,313
	Brighton.....	47.98	138	54	14	1	1	208
Kingston.....	Kingston.....	328.18	826	828	195	208	9	2,066
Lancaster.....	Martintown.....	432.95	1,043	849	191	62	.....	2,145
Millbrook.....	Millbrook.....	68.56	161	130	22	2	.....	315

## RURAL POWER DISTRICTS

MILES OF LINE, NUMBER OF CONSUMERS—OCTOBER 31, 1944

Control office location	Rural power district	Miles of line	Number of consumers					
			Farm	Hamlet	Commercial	Summer	Power	Total
<b>Eastern Ontario Division—Continued</b>								
Napanee.....	Napanee.....	299.27	829	485	119	60	5	1,498
Ottawa.....	Nepean.....	322.49	1,027	917	215	72	23	2,254
Hastings.....	Norwood.....	62.41	146	74	12	87	.....	319
Oshawa.....	Oshawa.....	226.51	627	2,483	133	229	9	3,481
Peterborough.....	Peterborough.....	143.37	314	1,383	78	239	8	2,022
Peterborough.....	Lakefield.....	122.65	127	150	42	223	2	544
Delta.....	Smiths Falls.....	245.94	548	473	134	202	5	1,362
Tweed.....	Sulphide.....	100.40	172	167	33	37	.....	409
	Madoc.....	67.94	135	56	23	20	.....	234
	Marmora.....	10.44	14	3	1	43	.....	61
Picton.....	Wellington.....	316.89	971	402	94	162	4	1,633
Winchester.....	Winchester.....	425.87	1,406	617	198	7	16	2,244
Total Eastern	Ontario division.....	4,930.54	12,405	13,114	2,294	3,199	125	31,137

## Thunder Bay System

Port Arthur.....	Thunder Bay.....	290.42	602	629	72	194	11	1,508
	Nipigon.....	5.25	13	1	.....	.....	.....	14
Total Thunder	Bay system.....	295.67	615	630	72	194	11	1,522
<b>Northern Ontario</b>	<b>Properties</b>							
Matheson.....	Connaught.....	62.56	94	137	29	2	3	265
Kagawong.....	Manitoulin.....	163.92	216	550	186	61	5	1,018
North Bay.....	North Bay.....	32.18	35	386	18	307	4	750
Sudbury.....	Powassan.....	56.68	127	66	14	2	.....	209
	Sudbury.....	38.70	34	1,353	46	110	5	1,548
Total Northern	Ontario Properties.	354.04	506	2,492	293	482	17	3,790

## SUMMARY

System	Miles of line	Number of consumers					
		Farm	Hamlet	Commercial	Summer	Power	Total
Southern Ontario							
Niagara division.....	12,232.20	41,845	35,113	4,503	8,097	473	90,031
Georgian Bay division.....	3,210.86	6,327	5,059	1,110	7,620	37	20,153
Eastern Ontario division.....	4,930.54	12,405	13,114	2,294	3,199	125	31,137
Thunder Bay.....	295.67	615	630	72	194	11	1,522
Northern Ontario Properties.....	354.04	506	2,492	293	482	17	3,790
Total all systems.....	*21,023.31	61,698	56,408	8,272	19,592	663	*146,633

\*These totals include 586 miles of primary line under construction on October 31, 1944, and service to 2,415 new consumers which was not completed at the end of the fiscal year.

NOTE: Included in the total of 61,698 farms are 61,486 regular farms and 212 farms combined with commercial and other services.

## SECTION V

### PROMOTIONAL AND WAR SERVICES

**B**ECAUSE of war conditions, load building activity, except as directly related to war industry, was not possible during the year. Public relations and educational work received special attention and further studies of Hydro and municipal growth were made in order to lay the foundation for the planning of post-war promotion programmes.

Advertising and publicity were largely of the informative and educational type. A variety of advertisements were published through the medium of 226 papers and provided about 3,000 messages to the public. Assistance was given to Hydro utilities in the preparation of advertising material.

#### Rural Activities

Early in 1944 following the amalgamation of the rural districts and the adoption of a uniform rural rate structure, a large proportion of the Commission's advertising was used to explain the changes in rural rates and service classifications. Later in the year a pamphlet entitled "Hydro on the Farm" was issued in connection with a special radio broadcast by the National Farm Radio Forum. This broadcast was made over the National network and copies of the pamphlet were sent to members of the Forum in Ontario. A second issue of 20,000 copies was printed to meet popular demand and distributed to agricultural organizations and individuals throughout the Province.

#### Ontario Schools

A safety poster, prepared in co-operation with the Ontario Safety League, was distributed to all schools in the Province. This was followed by a school book cover for use by the children giving pictorial information about the Hydro system. This school book cover was well received and almost 800,000 were distributed. The use of the Commission's motion pictures for educational purposes was a prominent feature of the 1944 programme in both public and secondary schools. In all this educational work the Hydro utilities and the municipal commissions have been very co-operative.

### Industrial Plants

Technical assistance to industrial plants in the effective use of available power was a prominent feature of the year's work. Approximately 200 industries were visited and power surveys made in 30 plants. Recommendations were made resulting in new and interesting applications. The use of Infra-red heating in novel and efficient ways was greatly enlarged.

Enquiries from several firms seeking industrial sites in the Province were received and information on the supply of power and other features were supplied to them. Looking forward to the post-war period a brochure entitled "Electric Power Supply in Strategic Ontario" was prepared and is now being distributed, particularly in Great Britain and the United States. This brochure explains the availability and the widespread use of electrical service in Ontario; it portrays the opportunities for industrial development and indicates the many advantages of Ontario as a place in which to live and work and play.

### Motion Pictures

A new 16 mm. sound picture in colour, entitled "The Romance of a River" was produced. This tells the story of the Ogoki diversion and the DeCew Falls development which utilizes in part the additional water made available all down the Great Lakes-St. Lawrence river waterway as a result of the diversion. Although copies of this film were not obtained until rather late in the year it has been shown to a large number of schools and to 170 meetings in various places. In addition, copies of the film were supplied to Canada's armed forces overseas and to Ontario House in London.

### Lighting Service

The lighting service of the Commission was in great demand during the year. Three hundred and fifty surveys of schools, offices and industrial premises were made and in a large number of cases the recommendations of the Commission were followed. There is evidence of a greater interest in better lighting in schools and during 1944 the advice of the Commission was requested and given to administrators of more than 200 schools. When equipment becomes more readily available the interest in improved school lighting should prove helpful to educational efficiency and react favourably to Hydro revenues.

### Priority Problems

Due to somewhat lessened restrictions and to greater stabilization of methods less difficulty was experienced in procuring materials and equipment and in obtaining necessary permits for extensions. Routine work in connection with permits for gasoline, oil, tires and food rationing for construction camps has been systematized on a satisfactory basis.

## SECTION VI

### HYDRAULIC ENGINEERING AND CONSTRUCTION

ACTUAL construction of major power projects during 1944 was limited to an extension of the Alexander power development on the Nipigon river. Various items in connection with the completion of the 25-cycle plant at DeCew Falls required attention and the Niagara river remedial weir was finished, work ceasing in September. Surveys were made of undeveloped sites on the Aguasabon and Madawaska rivers, those on the latter river being for the purpose of refining the plans for developments in a comprehensive scheme outlined before the Barrett Chute plant was built.

Renewals, repairs and improvements were carried out on various structures for the co-operative systems and Northern Ontario Properties.

#### SOUTHERN ONTARIO SYSTEM

##### **DeCew Falls Development**

The completion of minor items on the 25-cycle power plant, which came into service in September 1943, required attention and tests and investigations were made in connection with the hydraulic operation of the plant.

The plant draws its water supply from lake Erie, via the Welland ship canal, and this water forms part of that diverted for generation of power under international agreements. It is therefore necessary to measure continuously the diversion of water through the intakes of the plant and to submit the records of diversion to the International Niagara Board of Control. The Department of Transport is also interested because of the conveyance of the diverted water through the ship canal. To obtain these records the new intake, where almost all of the diversion takes place, was equipped with instruments to give a continuous record of flow through each of the six intake tubes, and a summator which automatically records the total flow through all of the tubes in operation at any time. An experimental investigation of the tubes was made, preliminary to their design, by means of a scale model in the Hydraulic Laboratory of the University of Toronto and the actuating elements of the flow recorders were designed on the basis of the indications of the tests on the model. Field measurements by current meter were made in the spring of 1944 in the intake canal to check the accuracy of the flow recorders. These measurements were made by members of the

technical staffs of the International Board, the Department of Transport and the Commission and checked satisfactorily the rating of the intake tubes derived from the tests of the model.

Investigations in field and office have proceeded in connection with the enlargement of DeCew Falls plant by the addition of another unit similar in size to the first. This will involve improvement in connecting channels in the reservoir, enlargement of the tailrace channel through Twelve Mile creek and the Second Welland canal to lake Ontario, and revision of road and rail crossings over the new channels. Design of channels and structures is proceeding in order that the second unit when required may be installed without delay.

Protective measures have been taken to cope with the large quantities of weeds that enter the intake of the new plant for a few weeks in the late summer. The weeds grow in the Welland Ship canal and are drawn into the intake in much larger amounts than formerly, because of the increased diversion of water through the intake.

#### Niagara River Power Plants

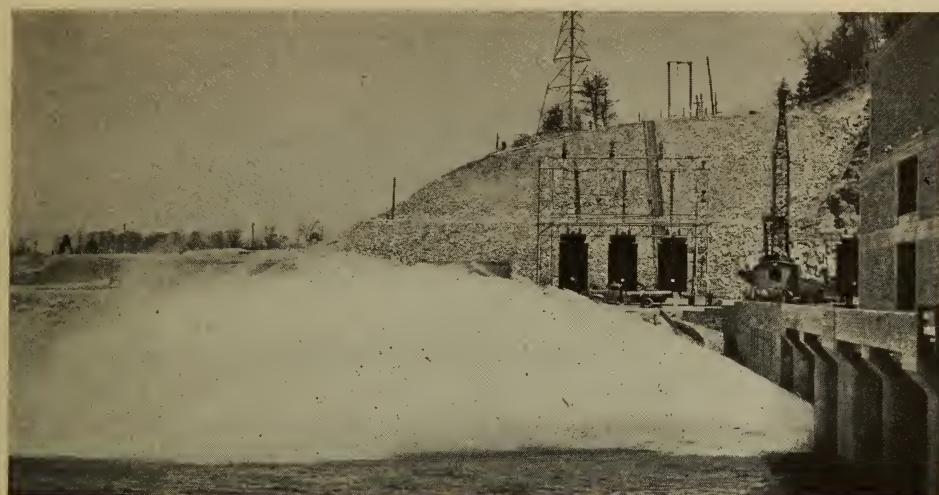
A revision of the rating tables used for computing diversions of water at the Niagara river plants was completed and submitted to the International Niagara Board of Control for approval. The revisions eliminated some minor inconsistencies in the rating tables formerly in use, and presented the ratings in a new form, for use in the control rooms, where records of diversion of water are computed. The tables received the approval of the Board and their use began on November 7, 1944.

Inspections were made of conduits at the Ontario Power plant and the tailrace tunnel at the Toronto Power plant. The tailrace tunnel was found to be in good condition, as also were conduits 2 and 3 at the Ontario Power plant. In No. 1 conduit at the Ontario plant, inspections made more than twenty years ago showed some of the lower plates distorted and repairs were made. Recent inspections having shown a considerable and rapid deterioration in the condition of the plates, an examination of the underside of the pipe is being made by means of a shaft and tunnel, in order to plan remedial measures.

The distributors in four 13,000 horsepower turbines at the Toronto Power plant were redesigned, and the new parts are being installed. The units, in which these changes are now made, are those which came into service when the plant commenced operating more than 35 years ago.

#### Niagara River Remedial Weir

In October 1943, work on the weir was being pressed vigorously to complete the season's programme before winter. Reference was made in the last Annual Report to changes in design to increase the stability of the component parts of the weir when subjected to the action of large ice floes. The top and upstream surfaces of the weir in the original design were to be faced with smooth uniform slabs of rock to assure free movement of ice over the weir. Inspection and sounding in the summer of 1943 indicated that the smooth facing slabs, not being interlocked with the core of the weir, had a



DECEW FALLS DEVELOPMENT

**Howell-Bunger Dispersal Valve**—Designed to dissipate the large amount of energy in surplus water bypassed from headpond to tailrace and discharged from lower end of penstock at high pressure

tendency to slide when subjected to pressure from ice floes. Accordingly, in the revised design, large pieces of rock weighing from eight to ten tons in weight were used to form a protective toe along the upstream face of the weir and pieces from five to ten tons were placed where necessary on the surface of the weir.

When the work ceased in January 1944, besides rock placing, soundings had been made over the whole surface of the weir. The records of these soundings were compared with the records of a second complete set made in the early summer of 1944 and this comparison, along with records of water levels, was used to plan the additional work required to bring the weir to completion. During the 1944 season, 2,834 tons of rock were placed in the weir and a very thorough job done on protective riprap along the Canadian shore. The records of water levels indicate that the weir has increased water levels upstream to the extent originally proposed and appreciably improved conditions for generation of power on both sides of the river. It has also increased the flow over the American falls, thereby improving their appearance.

#### Eastern Ontario Division

Maintenance work on plants in the Eastern Ontario division included the replacement of the wood stave pipe line at the High Falls plant on the Mississippi, and the repair of pitting on the turbine runner at Hanna Chute.

Studies and preliminary layouts were made of developments on the Madawaska river at Claybank and at Mountain Chute. A small survey party has been placed in the field to collect additional data at the sites at Claybank and Stewartville. The general scheme of development on the river was outlined before the Barrett Chute plant was built and the present surveys, which include investigations of subsurface conditions by test pits

and collections of records of water level, are for the purpose of improving and refining the general scheme. Some of the upstream sites among those included in the earlier scheme have been surveyed in greater detail.

### THUNDER BAY SYSTEM

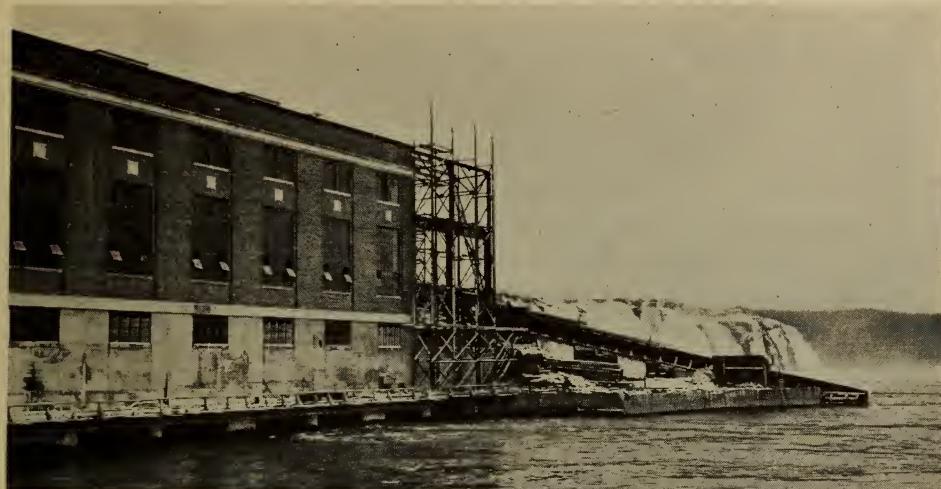
The iron mining project at Steep Rock lake required a supply of power for the pumping plant at the lake and for replacement of power formerly supplied by the Moose Lake Power plant on the Seine river, which had to be taken out of service because of the mining development. Power for mining operations and for equipment at an ore dock at Port Arthur will be required in the future. These new loads in what is now known as the Rainy River district of Northern Ontario Properties are supplied by the Thunder Bay system and have taxed the present capacity of generating sources. It became necessary therefore to increase the capacity of the power plants on the Nipigon river.

When the Alexander development was built it was designed to accommodate four units, of which three were installed. The fourth unit, now being installed, will effect a balance between the Alexander and Cameron Falls plants, in so far as water requirements are concerned. Their generating capacities are, of course, different, as the head at Cameron Falls is greater than at Alexander.

Since these plants were built, a new situation regarding water supply has come into being. Additional supplies have become available by the placing in service of the Ogoki Diversion project in July 1943. The additional water supply available from this source is sufficient to enable the existing plants to be operated at their full capacity at load factors above those which are expected to exist for primary loads.

The Alexander plant, as originally designed, was to have four units, the turbines to be rated at 18,000 horsepower, each under a head of 60 feet. Of these, three were installed and came into service toward the end of 1930. The headworks for the fourth unit were built at the same time and completion of the plant involved only a minor amount of dewatering to permit the excavation for the substructure and the construction of the draft tube.

The Ogoki diversion increased the water available for generation of power on the Nipigon river by about fifty per cent. The present installation and the current extension of the Alexander plant are of sufficient size to use the increased water supply, but only at a very high load factor and there is justification for further extensions at Cameron Falls and Alexander to increase the capacities of these plants to a size much greater than projected in the original designs. This is taken into consideration to a certain degree by the choice of a fourth unit at Alexander larger in size than the three existing units. The new turbine is of the fixed blade propellor type, rated at 19,000 horsepower, under a head of 58 feet, at 150 revolutions per minute. The setting will be similar to that of the existing units, the headworks, already built, being identical in most respects. Minor changes in the substructure from the original design have been made to provide for the difference in type and capacity of the new turbine which requires that it be set four feet lower than the others.



ALEXANDER POWER DEVELOPMENT—NIPIGON RIVER

Cofferdam and temporary housing for installation of unit No. 4. Log chute and discharge from spillway in background

Active construction of the extension commenced in March 1944. The tailbay cofferdam was completed and dewatering commenced in May. Excavation was completed by August and the substructure was approaching completion at the end of the fiscal year. The unit is expected to be ready to carry load in October 1945.

#### Aguasabon River Survey

A survey was made on the power site near the mouth of the Aguasabon river about sixty miles east of the Nipigon river. The water diverted from the Kenogami river, through the Long lake control dam, passes down the Aguasabon river to lake Superior. This diverted water enhances the value of the power site near the mouth of the river, giving the site a potential capacity of about 20,000 horsepower. A development here, connected by transmission lines to the Nipigon river plants, would be in a strategic position to supply power to prospective customers in the area, or alternatively could add to the resources of the Thunder Bay system for use in other parts of the district.

The power site on the river is near its outlet into lake Superior where, in a distance of about a mile, there is a fall of about 225 feet through a series of cascades and rapids.

While the complete development of the site at the full head is feasible, there are locations available for a partial development at moderate cost to supply local needs. Such a development would, of course, be replaced by the full head development, when the requirements of local or system loads demanded it.

A survey party was placed in the field in the summer of 1944 and collected topographic and hydraulic data and also investigated rock elevations by boring on sites of proposed structures. Work is proceeding on plotting the results of the survey and studies of layouts.

**Black Sturgeon Dam**

The maintenance of high storage levels on lake Nipigon for a greater percentage of time and the proposal to use the upper part of the permissible range of storage provided for in the original license of occupation made it desirable to improve the Black Sturgeon dam at the south end of lake Nipigon. This dam closes a low contour between the lake and the headwaters of the Black Sturgeon river, the natural ground level being slightly lower than maximum storage level. Reconstruction of the dam involved stripping at the base of the old dam to a sound boulder foundation, raising and widening the fill to increase the stability of the structure, extending the dam laterally to meet higher contours and placing riprap on the face.

**Long Lake and Ogoki Diversions**

These diversions are related to both the Southern Ontario and Thunder Bay systems. A rating of the outflow at the Long lake control dam was carried out by the Dominion Water and Power Bureau, assisted by members of the Commission's staff, in June, 1944. The ratings are made by current meter and, due to log driving during the summer and fall, only brief periods are available for rating measurements. Stage-discharge relations have been developed for the main sluice channel and the log sluice and from these, continuous records of discharge are secured for transmission to the International Niagara Board of Control.

The ratings made in June indicated that the stage-discharge relations have become stabilized and only minor changes in the rating curves were necessary.

Partial ratings were also made at a point some miles downstream from the control dam on the Ogoki project. A metering station has been established and other provision made for the current meter measurement. In the meantime, records of diversion are computed from readings of water levels at the control dam.

**HYDRAULIC INVESTIGATIONS**

A review of stage-discharge relations on the St. Lawrence river was continued.

Routine work carried on included the collection of hydrometric data throughout the Province in co-operation with Dominion Government departments, the supervision of operation of storage basins, assistance to municipalities on special engineering problems and co-operation with public and private organizations.

## SECTION VII

### ELECTRICAL ENGINEERING AND CONSTRUCTION

**A**S in preceding war years, construction work was governed by the requirements of the war economy.

In general, the programme of new generation, high-voltage transmission, and transformation, to provide increased power supplies for war industry, was largely completed in the earlier years of the war. In 1944 the main provision for increased generating capacity was in the Thunder Bay system, where work is now proceeding on the installation of a fourth unit at Alexander.

The immediate problem has been the effective distribution of available power supplies to accommodate the changing demands for war activities, and, at the same time, meet essential civilian power requirements. This has involved much planning and many undertakings, successfully carried out under conditions made more difficult by the shortage of both labour and materials, and with a limited engineering staff.

Extensive studies relating to supplies of power in the post-war era have been continued, in order that extensions and rehabilitations in all areas served can be made in an orderly manner, to dovetail into what may be called a master plan. The studies include various possibilities of load growth in the next ten to fifteen years, and have been facilitated by a maximum use of the Commission's network calculator.

As part of the plan already taking form it was decided to install at Essex transformer station a 40,000-kva synchronous condenser which was purchased at the same time as the two synchronous condensers installed at Burlington transformer station, and work on this project is in hand.

Several communication circuits, especially in the important Toronto-Burlington-Niagara Falls area have been improved to facilitate the operation of carrier channels. Terminal equipment for the telemetering of power outputs at the Niagara river plants to a new power supervisors' office in the Administration building at Toronto is being installed. This telemetering service will be extended to enable the power supervisors to make the best use of available power.

At the end of this section is given a tabulation of the transformer and distributing stations where major increases in transformer capacity were

put into service. Similar increases in capacity are being made at a number of other stations. In most cases, alterations or additions to station structures, switching, metering, and station protection have been involved. In some cases, temporary arrangements for the delivery of additional power were necessary.

Some six miles of new 26,400-volt and 44,000-volt transmission lines were constructed and placed in service, and approximately seven miles of existing lines were rebuilt or relocated. One hundred and twelve miles of obsolete transmission circuits were removed with, in some cases, their supporting structures. Four hundred and seventy-six steel towers, erected in 1910 and 1911, were taken down and largely sold for remelting.

In selected cases, where it appeared that the service given would be most useful in food production, distribution lines in rural power districts have been extended, and transformers added to existing lines. The extent of the work was limited by the control of essential materials and scarcity of labour. A summary at the end of this section shows the mileage of lines built, and the number of consumers served.

Engineering and other assistance was rendered to several municipalities, large power customers, and war industries, in connection with the purchase and installation of new equipment, changes and additions to existing stations, and the design and construction of new stations.

The Inspection department received assistance in connection with the approval, under the statute, of electrical installations over 600 volts.

Miscellaneous work in hand includes the construction of an office building at Stoney Creek, for the Saltfleet rural power district; and alterations to a purchased building at Sudbury, for the Sudbury rural power district. Partly as a fuel conservation measure, a number of the older type operators' and patrolmen's houses in various parts of the Province have been insulated against loss of heat. Many of these houses are in isolated areas and subject to extreme climatic conditions.

In addition to the work detailed below, a number of relay, switching and metering changes were made, to improve service security, and promote more efficient use of power.

### SOUTHERN ONTARIO SYSTEM

The first 40,000-kva synchronous condenser at Burlington transformer station was placed in service on January 17, 1944, and the second on April 17, 1944. The permanent control building was placed in service during September, 1944. The service building, completion of which was delayed due to war conditions, has been reinstated on the construction programme, and will be completed during 1945. The third 40,000-kva synchronous condenser, purchased at the same time as the above two condensers, and the manufacture of which is now nearing completion, is to be installed at Essex transformer station, as described in the following paragraph.



#### BURLINGTON TRANSFORMER STATION

Night view of 110,000-volt switchyard photographed by switchyard lighting only. The lighting units are designed to facilitate night inspection of overhead equipment without unwanted light in observer's eyes

In order to improve voltage conditions in the western area of the Niagara division, and at the same time provide for more efficient transmission of power to this area, authorization has been given and plans are being prepared for the installation of a 40,000-kva, 13,200-volt horizontal synchronous condenser, with automatic starting and control equipment, at Essex transformer station. This necessitates the stepping down of the bus voltage from 26,400 to 13,200 volts; and two 20,000-kva 3-phase transformers were purchased for this purpose. The plans provide for the replacement of the indoor portion of the 26,400-volt bus and switching equipment by modern outdoor equipment in order to remove service hazards associated with existing indoor equipment, and for the installation of a new control room in the space made available by the removal of the 26,400-volt indoor equipment.

The transfer of the municipal and industrial loads in the Welland area from the 46,000-volt supply out of Niagara transformer station to the 26,400-volt feeders out of Crowland and Atlas Steel transformer stations, which was started in 1943, was completed during the year. The three remaining 46,000-volt transformer banks at Niagara transformer station were disposed of, completing the removal of the four banks mentioned in last year's report. The removal of these transformer banks makes possible much needed improvements to this 30-year old station, which will eliminate operating hazards and provide better service conditions. Work to this end is now in progress, comprising in general the rearrangement of the 12,000-volt switching equip-



BURLINGTON TRANSFORMER STATION  
Control building from southwest

ment, the provision of a new control room and switchboard, the moving outdoors of the station service transformers, and otherwise modernizing the station service facilities.

Due to the growth of the interconnected capacity on the system, the 13,200-volt oil circuit-breakers at Preston transformer station, and the 44,000-volt breakers at Heely Falls and Seymour generating stations were replaced with breakers of higher interrupting capacity. The breakers at Seymour generating station were placed outdoors, and a switching structure installed. At a number of other stations 110,000-volt oil circuit-breakers were either replaced, or the interrupting capacity increased by equipping them with modern interrupting devices.

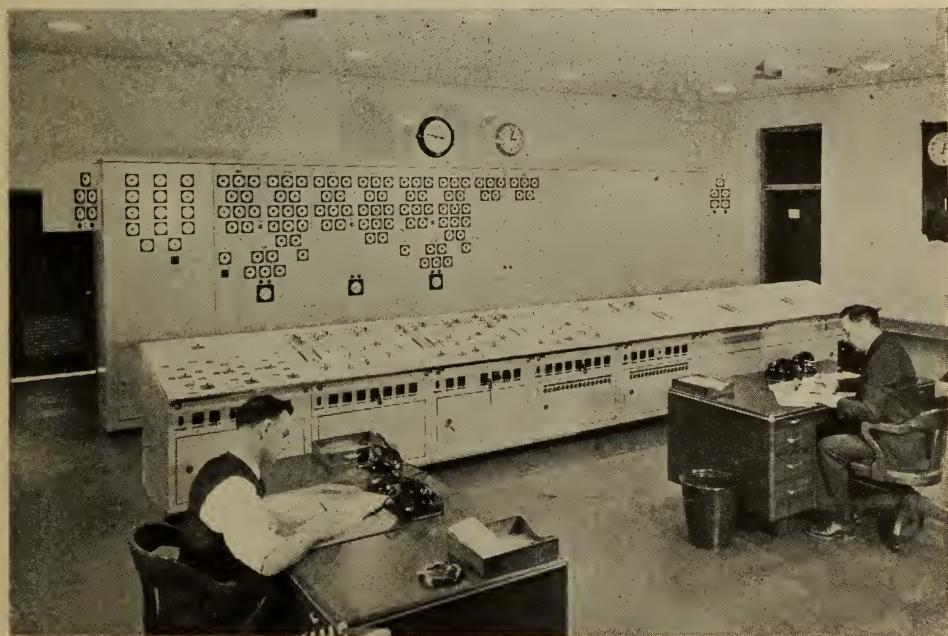
Increases in station capacity are under way at Aldershot, Bowmanville, Consecon, Cookstown, Dublin, Midhurst, Milverton, Willowdale, Winchester and Woodbridge distributing stations; and at the stations supplying Canada Cement Company (Belleville, Lehigh), and Howard Smith Paper Mills. The capacity of Perth rural station is being increased, and this station will supply customers formerly fed from Balderson distributing station, which is to be dismantled.

New step-down stations were completed for the Department of Munitions and Supply at de Havilland Aircraft of Canada, Ltd., (supplementing the power supplied through the original station), and at Malton. The permanent 2,000-kva stand-by station constructed for the Polymer Corporation at Sarnia was placed in service on February 6, 1944, and the temporary station supplying power for construction purposes was dismantled. A new 600-kva, 26,400/4,000-volt outdoor distributing station is under construction at

Oakville, and will be in service in November, 1944. A new distributing station was constructed at Tweed, for the supply of power to the south-western portion of Sulphide rural power district.

Plans have been prepared, and the transformer purchased, for the construction of a 1,000-kva, 44,000/2,400-volt distributing station for the town of Almonte, to be initially operated at 750 kva, 33,000/2,400-volts. This town operates its own generating plant, but, to obtain additional power, has recently contracted for the purchase of power. Preliminary engineering work was done for the supply of power to the town of Renfrew, which also operates its own generating plants, but is planning to take power from the Commission; and for a proposed new sub-station for the Belleville Hydro-Electric System.

Engineering assistance, commenced in 1942, in connection with the construction of the Kingston Public Utilities Commission's new 6,000-kva, 44,000/2,400-volt municipal station No. 2, was completed. Engineering assistance was rendered to the Hespeler Hydro-Electric Commission in connection with the construction of a new 1,500-kva, 13,200/4,000-volt step-down station; and to the Peterborough Utilities Commission, in connection with proposed high and low-voltage switching changes in its municipal sub-station, to supply 44,000-volt power to a new 3,000-kva sub-station



BURLINGTON TRANSFORMER STATION—CONTROL ROOM

From this room embodying latest improvements is controlled the 220,000- and 110,000-volt power supplied to a large area of southwestern Ontario. The built-in lighting system gives adequate illumination on instrument board and control desks with a minimum of glare and shadows



HEAVY DISTRIBUTION SERVICE TO NORTH AMERICAN CYANAMID LIMITED

A 12,000-volt, 3-phase circuit, each phase having two 500,000 circular mil stranded copper conductors in parallel. At right a ninety-degree angle structure made from salvaged 46,000-volt towers supporting six 12,000-volt, 3-phase circuits of 500,000 circular mil stranded copper conductor

being erected by a large power consumer. Rehabilitation work and station changes were carried out at Oakville municipal station for the Oakville Water and Light Commission.

An investigation was made of the properties of the Caledon Electric Company, and of the arrangements which would be necessary for the supply of power to the company's customers in the event of its properties being purchased by the Commission.

Additional 13,200-volt feeder and switching equipment was installed at Hamilton-Gage transformer station, to supply Dominion Foundries and Steel Company.

Ground reactors are being installed at Port Colborne transformer station and Welland distributing station to improve the station relay protection. Work is proceeding on the installation of a grounding transformer at Lindsay

distributing station to effect a balance of voltages and relieve interference with communication circuits.

To provide for the transfer of the district operating centre from London transformer station to St. Thomas transformer station, facilities added at the latter station include an extension to the control room and the installation of carrier telephone terminal equipment.

Following a fire on January 5, 1944, at Youngs Point generating station, this station was dismantled.

### THUNDER BAY SYSTEM

Work is proceeding on the installation of a fourth unit at Alexander generating station, in an extension to the building. The generator will have a capacity of 15,000 kva, and is scheduled to be in service during the fall of 1945. Like the first three units, this fourth unit will be controlled from Cameron Falls generating station.



TRACTOR EQUIPPED FOR POLE REMOVALS

The crane and equipment attached to tractor were designed and built by the Commission's construction department largely from salvaged materials. In addition to its primary purpose this machine is in frequent use for loading and unloading poles, reels of cable, large distribution transformers and other heavy materials and equipment

Work has been commenced on the construction for the Brompton Pulp and Paper Company of a temporary 600-kva, 2,300/22,000-volt step-up station at the customer's Nipigon mill, and on a temporary 22,000/2,300-volt step-down station of similar capacity at the customer's Red Rock mill. By the use of an existing transmission line, these stations will supply construction power to the customer's Red Rock mill. The stations will be in service early in December, 1944.

Arrangements have been made for the installation of a 110,000-volt bus-tie breaker at Port Arthur transformer station. The work is expected to be completed early in 1945, and will enable maintenance work to be done on the other oil circuit-breakers without interruptions to service.

The capacity of Port Arthur distributing station is being increased by the installation of a 200-kva, 22,000/6,900-volt transformer. The bank of three 150-kva transformers at Rosslyn distributing station is being replaced by a bank of three 333-kva transformers, increasing the station capacity by 550 kva.

## NORTHERN ONTARIO PROPERTIES

### Abitibi District

A 26,400-volt feeder was constructed between Timmins transformer station and the new receiving station of Hollinger Consolidated Gold Mines.

### Nipissing District

At Nipissing generating station a rearrangement of switching equipment and relocation of switchboard are being made to improve operating security.

### Patricia District

A 100-kva, single-phase, 44,000/2,400-volt transformer was installed at Gold Eagle Gold Mines station for the supply of power to Cottage Cove townsite. This townsite was formerly supplied through one of the company's transformers; these have been removed due to the closing down of the mine.

### Rainy River District

The 110,000-volt wood-pole transmission line between Rainy River switching station at Port Arthur and Moose Lake switching station, and the two new switching stations, were placed in service on November 28, 1943, initiating the supply of power to Steep Rock Iron Mines, Ltd., and also to the Ontario-Minnesota Pulp and Paper Company, Ltd., to replace output from the company's Moose Lake generating station. The converted generators at the company's plant, put out of commission by the diversion of Seine river, were placed in service as synchronous condensers on February 23, 1944. To provide adequate facilities for patrolling the transmission line, which runs through sparsely settled country, five patrolmen's houses are being constructed.

A new 450-kva, 44,000/8,000-volt distributing station is being constructed at Steep Rock Iron Mines for the supply of power to Atikokan townsite. The station is expected to be in service early in 1945.

## TRANSFORMER CHANGES COMPLETED DURING YEAR ENDED OCTOBER 31, 1944

Station	Installed transformers						Removed transformers.		
	No	kva	Ph.	Total kva	From	In Service	No.	kva	To
<b>Southern Ontario System</b>									
Bradford.....	D.S.	3	200	1	600	Reserve	Oct. 29, '44	3	100 Reserve
Cameron.....	R.S.	.....	.....	.....	.....	.....	July 5, '44	1	50 Reserve
Chesterville.....	D.S.	1	300	3	300	Reserve	Sep. 17, '44	1	300 Reserve
de Havilland.....	D.M.S.	3	333	1	1,000	Reserve	Feb. 27, '44	.....	.....
Fenelon Falls.....	G.S.	.....	.....	.....	.....	.....	Nov. 1, '43	3	135 Salvage
Hall.....	R.S.	.....	.....	.....	.....	.....	July 5, '44	1	25 Salvage
Innisfil.....	D.S.	3	333	1	1,000	Reserve	June 14, '44	3	250 Southampton D.S.
Kincardine.....	D.S.	3	75	1	225	Wingham R.S.	June 29, '44	3	50 Walkerton R.S.
Malton.....	D.M.S.	3	100	1	300	New	Sep. 2, '44	.....	.....
Millbrook.....	D.S.	1	100	1	100	Reserve	June 9, '44	.....	.....
Napanee.....	R.S.	3	667	1	2,000	Reserve	Oct. 18, '44	3	250 Reserve
New Toronto.....	D.S.	1	1,500	3	1,500	Reserve	Oct. 15, '44	.....	.....
New Toronto.....	D.S.	1	1,500	3	1,500	Willowdale D.S.	Oct. 15, '44	.....	.....
Niagara.....	T.S.	.....	.....	.....	.....	.....	Aug. 30, '44	7	3,500 Sold-Holl'g'r. Gold Mines
Niagara.....	T.S.	.....	.....	.....	.....	.....	.....	.....	.....
Port Perry.....	D.S.	1	300	3	300	Reserve	June 21, '44	3	2,400 Salvage
St. Marys.....	T.S.	1	1,250	1	1,250	Reserve	Sep. 10, '44	1	300 Reserve
St. Thomas.....	T.S.	1	1,250	1	1,250	Reserve	Feb. 13, '44	2	750 Salvage
Sarnia Beach.....	R.S.	3	200	1	600	Reserve	Sep. 22, '44	1	1,250 Salvage
Southampton.....	D.S.	3	250	1	750	Innisfil D.S.	Sep. 12, '44	3	150 Wingham R.S.
Thornton.....	D.S.	1	75	3	75	Reserve	Nov. 11, '43	1	50 Reserve
Tweed.....	D.S.	1	100	1	100	Reserve	May 7, '44	.....	.....
Victoria Harbour.....	D.S.	1	100	1	100	Reserve	Aug. 29, '44	.....	.....
Walkerton.....	R.S.	3	50	1	150	Kincardine D.S.	Aug. 20, '44	.....	.....
Willowdale.....	D.S.	3	*667	1	2,000	Reserve	June 14, '44	1	1,500 New Toronto D.S.
Wingham.....	R.S.	3	150	1	450	Southampton D.S.	June 25, '44	3	75 Kincardine D.S.
Youngs Point.....	G.S.	.....	.....	.....	.....	.....	Jan. 5, '44	3	135 Salvage
Youngs Point.....	G.S.	.....	.....	.....	.....	.....	Jan. 5, '44	1	500 Salvage
<b>Northern Ontario Properties Patricia District</b>									
Cottage Cove.....	D.S.	1	100	1	100	Reserve	Sept. 7, '44	.....	.....

\* Three 667 kva installed temporarily, proposed installation of two 1,000 kva.

## TOTAL MILEAGE OF TRANSMISSION LINES AND CIRCUITS

Structure and voltage	Kind of structures	Line route or structure miles			Circuit miles		
		Total to Oct. 31, 1943	Additions 1944	Total to Oct. 31, 1944			
<b>Southern Ontario System</b>							
NIAGARA DIVISION							
220,000-volt.....	steel	1,025.12	.....	1,025.12	1,069.97		
110,000-volt.....	"	862.38	*50.16	812.22	1,400.95		
110,000-volt.....	wood	81.84	30.14	111.98	113.81		
90,000-volt†.....	steel	65.85	.....	65.85	120.81		
60,000-volt†.....	"	35.23	.....	35.23	35.57		
60,000-volt.....	wood	3.03	.....	3.03	3.03		
46,000-volt.....	steel	15.93	*15.93	.....	.....		
46,000-volt.....	wood	0.36	*0.36	.....	.....		
26,400-volt.....	"	877.39	0.77	878.16	1,051.98		
13,200-volt.....	"	252.97	*0.17	252.80	318.00		
13,200-volt.....	steel	0.82	.....	0.82	1.64		
12,000-volt.....	wood	72.36	0.03	72.39	91.26		
Dominion Power district—44,000-volt.....	steel	34.97	.....	34.97	69.94		
Dominion Power district—44,000-volt.....	wood	44.66	*4.98	39.68	39.68		
Dominion Power district—22,000-volt.....	"	28.54	*0.52	28.02	28.02		
Dominion Power district—10,000-volt.....	"	14.40	.....	14.40	14.40		
GEORGIAN BAY DIVISION							
110,000-volt.....	wood	55.83	*30.14	25.69	25.69		
38,000-volt.....	"	223.42	.....	223.42	250.92		
6,600-volt.....	"	2.30	.....	2.30	2.30		
Severn district—22,000-volt.....	"	109.74	0.42	110.16	134.46		
Eugenia district—38,000-volt and less.....	"	242.08	*10.54	231.54	297.93		
Wasdell district—22,000-volt.....	"	82.12	.....	82.12	83.46		
Muskoka district—38,000-volt.....	"	26.31	.....	26.31	26.31		
EASTERN ONTARIO DIVISION							
110,000-volt.....	steel	163.23	.....	163.23	166.54		
110,000-volt.....	wood	280.14	.....	280.14	280.14		
44,000-volt.....	"	24.33	.....	24.33	24.33		
33,000-volt.....	"	42.26	.....	42.26	47.94		
Central district—44,000-volt and less.....	wood	503.64	*1.18	502.46	540.69		
St. Lawrence district—44,000-volt.....	"	128.29	.....	128.29	128.67		
Rideau district—26,400-volt.....	"	62.51	*0.03	62.48	62.48		
Madawaska district—33,000-volt and less.....	"	59.10	.....	59.10	59.10		
Thunder Bay System							
110,000-volt.....	steel	82.12	.....	82.12	164.28		
110,000-volt.....	wood	178.21	.....	178.21	178.21		
44,000-volt.....	"	113.81	.....	113.81	113.81		
22,000-volt.....	"	8.05	.....	8.05	8.05		
12,000-volt.....	"	1.45	.....	1.45	1.45		
Northern Ontario Properties							
Abitibi district—132,000-volt.....	steel	362.74	.....	362.74	725.48		
Abitibi district—132,000-volt.....	wood	190.19	.....	190.19	190.19		
Abitibi district—33,000-volt and less.....	"	150.12	1.23	151.35	152.36		
Sudbury district—110,000-volt.....	"	46.23	.....	46.23	46.23		
Sudbury district—22,000-volt.....	"	61.57	.....	61.57	61.57		
Nipissing district—22,000-volt.....	"	63.16	.....	63.16	80.04		
Patricia district—44,000-volt.....	"	343.59	.....	343.59	343.59		
Patricia district—22,000-volt.....	"	32.65	0.11	32.76	32.89		
Rainy River district—110,000-volt.....	"	.....	119.81	119.81	119.81		
Totals.....		7,055.04	+38.50	7,093.54	8,707.98		

\*Removals.    †Net increase.    ‡Former T. & N. P. Co. circuits are now used at various voltages ranging from 4,000 volts to 110,000 volts.

NOTE: Circuit miles of 220,000-volt line, in the province of Quebec, connected to H-E.P.C. lines = 103.45. Total 220,000-volt system interconnected circuit miles = 1,173.42.

**TRANSMISSION LINE CHANGES AND ADDITIONS MADE DURING YEAR  
ENDED OCTOBER 31, 1944**

**SOUTHERN ONTARIO SYSTEM**

**HIGH-VOLTAGE LINES**

A 110,000-volt circuit was removed from 2.55 miles of the double-circuit, steel-tower line, Burlington junction to Halton junction.

A 110,000-volt circuit was removed from the double-circuit, steel-tower line, Pelham junction 22.58 miles to Saltfleet junction.

Six towers were removed from the 110,000-volt, steel-tower line "A", Niagara transformer station to Allanburg junction.

Four hundred and thirty-four towers were removed from the 110,000-volt, steel-tower line "A", Allanburg junction to Dundas transformer station.

Two towers were removed from the 110,000-volt, steel-tower line, Queenston Forebay structure to Vanessa junction.

Seven towers were removed from the 110,000-volt, steel-tower line, Wentworth junction 0.75 mile to Nelson junction.

Twenty-six towers were removed from the 110,000-volt, steel-tower line "B", Nelson junction 2.60 miles to Halton junction.

**LOW-VOLTAGE LINES**

**Niagara Division**

**NIAGARA DISTRICT:**—The 12,000-volt line from Virgil junction 3.13 miles to Niagara-on-the-Lake was rebuilt and restrung for 1.82 miles.

Two 46,000-volt circuits were removed from the four-circuit, steel-tower line, Southworth junction 1.99 miles to the Union Carbide Company. The third circuit was removed from 1.75 miles and the fourth circuit from 0.66 mile.

Four 46,000-volt circuits were removed from the four-circuit, steel-tower line, Niagara transformer station 13.94 miles to Southworth junction.

**DUNDAS DISTRICT:**—The 26,400-volt line from Ryckman distributing station to Caledonia distributing station was relocated for 0.63 mile.

**PRESTON DISTRICT:**—A 13,200-volt tap line was built 50 feet to a new Hespeler municipal station.

**BRANT DISTRICT:**—The 26,400-volt line, Norfolk transformer station to the Lake Erie and Northern Railway station, was extended 80 feet to a new station.

**KENT DISTRICT:**—Ten poles were relocated in the 26,400-volt line from Prince Albert junction to Como junction.

**ESSEX DISTRICT:**—The 26,400-volt circuit from Essex transformer station 3.44 miles to Riverside junction, was replaced by a new wood-pole line 3.67 miles in length.

The 26,400-volt circuit from Riverside junction 5.94 miles to Puce junction was removed.

**YORK DISTRICT:**—A 26,400-volt tap line was built 435 feet to a new Department of Munitions and Supply (Malton) station for that customer.

**ST. CLAIR DISTRICT:**—The 26,400-volt line from Indian Road junction to Polymer Corporation was placed in service at 26,400 volts for that customer.

**TORONTO AND FAIRBANK DISTRICTS:**—The 26,400-volt lines supplying township stations, totalling 8.24 miles, were sold to York Township Hydro-Electric System.

**CROWLAND DISTRICT:**—A 26,400-volt line was built from Crowland transformer station 0.53 mile to Dain Avenue junction.

The 26,400-volt line from Crowland transformer station 0.55 mile to Dain Avenue junction was restrung and incorporated in the section from Crowland transformer station to Union Carbide junction.

**ALLANBURG DISTRICT:**—The 12,000-volt line from Allanburg transformer station to Beaver Wood Fibre junction was rebuilt for 0.34 mile.

The 12,000-volt line from Welland Canal junction 1.13 miles to Port Robinson distributing station was rebuilt.

**NIAGARA-DOMINION DISTRICT:**—Sections of 44,000-volt lines, totalling 0.38 mile were built and connected to an idle 60,000-volt circuit on steel towers between Ship Canal junction and Niagara Falls (C.N.P.) frequency-changer station, replacing 5.36 miles of 44,000-volt line which was removed.

The 10,000-volt line from Victoria station to the Canada Crushed Stone Company was rebuilt for 0.67 mile.

The 22,000-volt line from Plymouth junction 0.28 mile to Beatty Welland distributing station was rebuilt.

### Georgian Bay Division

EUGENIA DISTRICT:—The 22,000-volt circuit and insulators were removed from the wood-pole line, Harriston distributing station 10.54 miles to Mount Forest frequency-changer station.

SEVERN DISTRICT:—The 22,000-volt line from Tottenham junction to Beeton junction was relocated for 1.43 miles.

### Eastern Ontario Division

CENTRAL DISTRICT:—One mile of ground cable was erected on terminal portions of the 11,000-volt line, Fenelon Falls generating station to Lindsay distributing station.

A portion of ground cable, 10.13 miles in length, was removed from the 44,000-volt line, Sidney transformer station to Brighton distributing station.

A portion of ground cable, 6.73 miles in length, was removed from the 44,000-volt line, Brighton distributing station to Colborne distributing station.

A portion of ground cable, 14.40 miles in length, was removed from the 44,000-volt line, Colborne distributing station to Cobourg distributing station.

A portion of ground cable, 4.56 miles in length, was removed from the 44,000-volt line, Cobourg distributing station to Port Hope distributing station.

## NORTHERN ONTARIO PROPERTIES

ABITIBI DISTRICT:—A 26,400-volt line was built from Timmins transformer station 1.24 miles to Hollinger Consolidated Gold Mines station.

PATRICIA DISTRICT:—A section of 22,000-volt line was built from Pickle Crow Gold Mines station 0.11 mile to establish a connection to their Albany-Winoga station.

RAINY RIVER DISTRICT:—A 110,000-volt, wood-pole line was completed from Rainy River switching station 119.81 miles to Moose Lake switching station.

## COMMUNICATIONS—ALL SYSTEMS

### SOUTHERN ONTARIO SYSTEM

A new telephone circuit was installed a distance of 13.9 miles from Cooksville transformer station to Toronto-Strachan transformer station.

In the existing lead-covered underground telephone cable between Toronto-Bridgeman transformer station and the Administration Building on University Avenue, additional loading coils were installed to facilitate operation of increased communication circuit requirements in the Toronto area.

Between Kent transformer station and Essex transformer station, a portion of the two-circuit telephone line 29 miles in length was removed and one leased circuit substituted for an equivalent distance.

A single telephone circuit 3.45 miles long was erected on 26,400-volt transmission line poles from Essex transformer station to Riverside junction.

Carrier terminals were installed for the operation of a voice channel over the existing physical circuits between Toronto-Wiltshire transformer station and Niagara transformer station to provide additional telephone facilities for power supervision.

A lead-covered telephone cable was erected for a distance of 0.45 miles from the 66-cycle DeCew Falls generating station to the 25-cycle generating station to provide intercommunication facilities between these two stations.

A lead-covered telephone cable was erected from the 66-cycle DeCew Falls generating station a distance of 0.24 miles to the operators' colony at Power Glen.

A single-circuit communication line was erected for a distance of 1.8 miles from the 66-cycle DeCew Falls generating station to Lake Gibson for the operation of water-gauge levels.

The single telephone circuit carried on 12,000-volt transmission line poles was rehabilitated a distance of 1.6 miles from Virgil junction to Niagara-on-the-Lake municipal station.

In the Ottawa area, power line carrier antennae extensions were added at Merivale junction to improve operation of the power line carrier channels between Ottawa, Masson and Cornwall.

Telephone line carrier equipment was installed at Val Tetreau switching station and Bryson generating station to provide for the operation of frequency control and telemetering channels between these points and to Chats Falls generating station.

## NORTHERN ONTARIO PROPERTIES

Rainy River District:—The single-circuit telephone line between Port Arthur transformer station and Moose Lake switching station, which was reported 75 per cent completed in 1943, is now in service.

**DISTRIBUTION LINES AND SYSTEMS  
IN RURAL POWER DISTRICTS**

The following summary shows the mileage of distribution lines constructed by the Commission in rural power districts and the number of consumers served.

The summary indicates a total net increase in construction during the year of 350 miles of new primary line completed and giving service to 8,054 additional consumers.

**SUMMARY OF CONSTRUCTION IN RURAL POWER DISTRICTS**

System and district	At October 31, 1943		At October 31, 1944					
	Miles of primary line con- structed	Number of con- sumers re- ceiv- ing service	Miles of primary line			Number of consumers		
			Con- structed	Under con- struc- tion or author- ized	Total	Re- ceiv- ing ser- vice	Au- thor- ized	
<b>SOUTHERN ONTARIO SYSTEM</b>								
Niagara division....	11,764	84,085	11,953	280	12,233	88,823	1,208	90,031
Georgian Bay division.....	3,066	18,618	3,093	118	3,211	19,768	385	20,153
Eastern Ontario division.....	4,636	28,520	4,762	169	4,931	30,420	717	31,137
<b>THUNDER BAY SYSTEM</b>	289	1,425	290	5	295	1,506	16	1,522
<b>NORTHERN ONTARIO PROPERTIES</b>								
Abitibi district.....	53	244	57	5	62	253	12	265
Sudbury district.....	29	1,399	31	7	38	1,477	71	1,548
Nipissing district.....	88	913	89	0	89	959	0	959
Manitoulin district.....	162	960	162	2	164	1,012	6	1,018
<b>Totals.....</b>	<b>20,087</b>	<b>136,164</b>	<b>20,437</b>	<b>586</b>	<b>21,023</b>	<b>144,218</b>	<b>2,415</b>	<b>146,633</b>

## SECTION VIII

### RESEARCH—TESTING—INSPECTION PRODUCTION AND SERVICE

THE Laboratories continued to assist in the war programme by research studies, investigation, inspection and testing of materials and equipment for the Canadian government and the armed services. Research also was carried on with regard to important problems of operation of the Commission's systems, including investigations of electrical insulation and the safety of farm wiring, conductor materials and joints, radio interference, preservation of wooden and concrete structures, paints and other protective coatings, insulating and lubricating oils, domestic water heating, cold storage for farms and distribution of light in school classrooms.

Factory inspection and witness testing has included large rotating equipment for the Commission's power systems, the checking of parts before assembly being an essential part of this work.

The Approvals laboratory, functioning as agent of the Canadian Standards Association, has co-operated with the Electrical Inspection department in testing domestic and other appliances and fittings to ensure as far as possible safety in homes and factories.

The Production and Service department has continued operation of the Commission's machine shop and garage, and the maintenance of the large fleet of trucks, the volume of work having increased appreciably during the year.

#### RESEARCH AND TESTING LABORATORIES

##### Research

The activity of the Laboratories in research problems of the Commission increased in certain branches, and some investigations are extended to the field where actual operating conditions are studied. Municipal Hydro utilities are given assistance with their local problems.

##### Electrical Insulation

A large amount of work was done for the inspection boards of Army, Navy and Air departments, for the Department of Munitions and Supply

and for manufacturers on the insulation of assembled apparatus under extreme conditions of high and low temperature and humidity.

Investigation of the conditions of insulation of farm wiring led to discussion as to the best means of supplying rural consumers. As a result changes in materials or circuits may be suggested to increase safety of farm personnel and animals.

Several cases of breakdown in buried cable were investigated and new methods of detecting faults were studied.

Lightning current recorders were installed at Burlington transformer station for the purpose of studying lightning conditions.

#### Vibration of Line Conductors

For many years investigations concerned with the suppression of vibrations in transmission line conductors have been carried on. This work has now resolved itself into studies of the endurance characteristics of conductor materials and certain connector assemblies. In 1944, fatigue tests were made on rural tie lines.

A report covering the fatigue properties of galvanized steel wire was prepared as a basis for ensuring high quality wire for ground cables.

Methods of repairing steel-reinforced aluminum conductor were tested and an improvement found in repair methods for telephone lines. Attention also was given to two clamping devices which permit changes being made on energized lines.

#### Treatment of Wooden Transmission Structures

A large number of poles were inspected in the field, to study the effectiveness of various preservatives and methods of treatment.

Laboratory tests were conducted on pentachlorphenol in treatment of eastern cedar poles by the sand-creosote-collar method. Treated samples were submitted to the Forest Products Laboratories in Ottawa and the Consolidated Treating Company's laboratory in Minneapolis for toxicity tests. From the investigation, this chemical was found to be an excellent preservative for use in a sand collar for ground-line treatment.

The problem of obtaining substitute woods for poles and crossarms has been studied in view of the shortage of woods usually employed.

Arrangements have been made to construct special laboratory equipment in order to conduct treating experiments with methylolurea to determine its physical and chemical characteristics.

#### Domestic Hot-Water Tanks and Heaters

The corrosion of hot-water tanks has been studied for several years. This year, the fifth inspection of ten tanks at York station was made. These tanks are of various types, and the information obtained is being used in the Commission's domestic water-heating programme.

Specimens of corroded galvanized steel sheets from hot-water tanks which had failed were studied to correlate, if possible, the characteristics of the galvanizing or steel base with the service life of the tanks.

Some experiments were made with a view to developing a method of accelerated test of quality of galvanizing on iron and steel. The results obtained appear to explain certain phenomena observed in galvanized tanks and to provide a means of differentiating between good and poor galvanizing.

A new quick-recovery flat-rate electric water-heater arrangement utilizing duplicate heater elements, one near the top of the tank, was developed, and tests have shown that it maintains the delivered water at a more nearly uniform temperature than the customary arrangement with one element near the bottom of the tank. It also provides a substantial increase in the amount of hot water available to meet peak demands. The duplicate heater elements are each of the rated capacity but are interlocked so that only one heater is energized at any time. During a day when exceptional demands have nearly exhausted the stored hot water, a thermostat switches the lower heater off and turns on the upper heater which quickly heats the water in the upper part of the tank and maintains a limited supply for the balance of the day.

#### Illumination

A series of tests was conducted on the lighting of school classrooms, using a model in which measurements of distribution of light were made to determine the proper arrangement of luminaires and suitable surface and colouring of ceilings and upper walls.

#### Masonry Materials

Observations on the thermal and structural behaviour of Barrett Chute dam were continued and by diamond drilling, data were obtained on the conditions within Chats Falls dam. The cores from the latter dam were examined and physical tests made which showed the quality of the concrete to be satisfactory.

The deterioration of cement in storage has been a subject of continued study.

The recording of temperature gradients in concrete, referred to in last year's Annual Report, was continued and results show how the combined and opposed effects of ambient temperatures and absorption of radiant energy sharply change the gradients. The effect of these factors on freezing and thawing cycles at various faces was studied from the standpoint of durability of the concrete with regard to the direction of these faces.

The study of aggregates as to their effect in expansive reactions with cement was continued. Field and laboratory tests on two types of absorptive linings, intended to produce more durable concrete surfaces, were made.

Freezing and thawing tests were conducted in the Laboratories to study the durability of moulded, drilled and sawn specimens.

#### Paints and Protective Coatings

A large amount of research was done on the formulation of wood priming paints and the effect of pigments upon the tendency of paints to blister. This work resulted in the recommendation of special wood priming paints and an improved formula for exterior house paint, both of which are now in use by the Commission.



SCALE MODEL FOR SCHOOL LIGHTING STUDIES

For photocell survey of light distribution at level of students' desks and at the blackboards to determine the effect of type and spacing of luminaires and of ceiling reflection factors

Studies were made to establish special marking colors, and a specification for their use was prepared.

Paint conditioning machines were investigated and one was purchased for use at Strachan Avenue and Niagara Stores.

#### Petroleum Products

The most important work of the year was a study to correlate laboratory test of insulating oil with the behaviour in the field. More than 1,000 samples of used oil were tested for viscosity, dissipation factor, interfacial tension, neutralization value and dielectric strength. The results are to be used to develop a quick laboratory method for the valuation of old oil in service.

Comparative tests were made on several grades of earths for treatment of used oils to determine the grades most economical for field work.

Experiments were conducted on wax dispersers for lowering the flow point of certain transformer oils in service.

A large amount of work was done to determine the solubility of air in insulating oil and to find the amount dissolved in oil in certain types of transformers while in service.

#### Investigations resulting from Factory Inspection

A few investigations were made to obtain more information on conditions which were found during inspection of equipment or after its installation. These included a study of expensive core losses in two large power transformers to see if there were any localized fault, tests to determine the cause of gassing in a transformer, the behaviour of hottest spot temperature indicating equipment in power transformers and experiments with a metal spray method of repair to a turbine.

**Miscellaneous Research**

An experimental cold storage cabinet and freezer for farm use was completed and some tests were made. This cabinet can freeze at a satisfactory rate and can store 750 to 1,000 pounds of food. The operating temperature of the freezer was twelve degrees below zero Fahrenheit and provision was made for the protection of stored food in case of power failures.

A large amount of investigational work was done on synthetic and rubber insulation, on wartime ropes, explosive hazards of certain gases, contact performance of vibrators, qualifications of components of direction-finding equipment, and on waxes, waxed paper wrapping and metal strapping for shipments overseas which are liable to long exposure to the elements.

Metallographic studies were made on steel and aluminum wires from power lines that failed; the effect of mechanical injury on copper telephone wire also was studied, and the extensive soil investigations were continued.

**Routine Testing, Materials and Equipment Inspection**

The work of the Laboratories includes a large amount of routine testing of materials and various types of equipment, and also the factory inspection of power equipment being built for the Commission and the municipalities. The purpose of these services is to ensure high quality in material and workmanship and also suitable operating characteristics in the equipment which will result in the lowest possible expense for maintenance and the assurance of reliability in service.

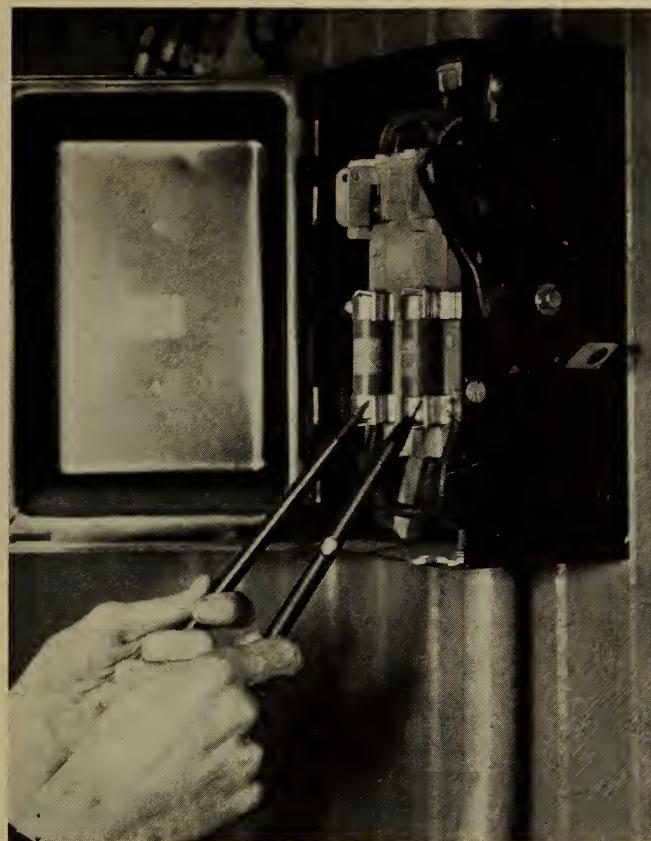
**Electrical Equipment**

Acceptance tests were completed on two 40,000-kva synchronous condensers for Burlington transformer station, and electrical operating tests after installation were witnessed by the Laboratories. This inspection also included metal clad automatic starting equipment for the condensers, which was used in the electrical tests.

Inspection and final electrical witness tests were made on 21 power transformers, with total capacity of 34,450 kva, six oil circuit breakers, total capacity 117,000 kva, and seven disconnecting switches, 244,000 kva. A total of 2,224 fused switches and 2,347 distribution transformers of small sizes with total capacity of 10,218 kva, were inspected and tested.

Gradient tests were made in the field on 39 transformer and oil circuit-breaker bushings to determine their condition without interrupting their service.

Routine tests were made in the Laboratories on 5,232 pairs of linemen's rubber gloves and on 1,680 samples of insulating oil. Special tests were made on 938 samples of oil. Instrument and distribution transformers tested amounted to 785, and 85 motors were given special tests. A few thermostats were tested, a total of 25. Insulators, to the number of 2,395, were tested and 1,607 watthourmeters were repaired. The number of indicating instruments calibrated, 170, was about the same as in the previous year.



#### SERVICE VOLTAGE TESTER

Consisting of small neon lamp and high resistance mounted in insulating handles and connected in series. This was developed in the Commission's laboratories and provides a convenient and safe means of indicating whether services up to 550 volts are alive

#### Mechanical and Structural Equipment

The chief items in mechanical inspection of equipment during fabrication at the manufacturers' plants were for installation at generating or transformer stations.

For Alexander development, the important equipment included one 19,000 horsepower hydraulic turbine, one 15,000-kva generator, the embedded parts for the turbine, the head gates and hoisting equipment. None of this equipment was completed during the year.

For Burlington transformer station, three 40,000-kva synchronous condensers, two of which were completed and installed.

For Toronto Power generating station at Niagara, two turbine shafts and sixteen cast steel runners, eight of which have been completed, and for Cameron Falls, a thrust bearing runner plate.

The tanks for all power transformers and oil circuit-breakers were inspected during manufacture with particular attention to the welding.

Other welded equipment for the Commission was carefully checked and seventeen welded tanks for a transformer manufacturer were inspected.

#### Concrete

Four resident concrete inspectors and three other inspectors and assistants were engaged on three construction projects, namely, the installation of two synchronous condensers at Burlington transformer station, extensions to Alexander generating station and repairs at Eugenia development. The duties of these inspectors were the testing of aggregates, the supervising of processes and generally checking the quality of concrete.

Field surveys were made at two sites to determine the nature of construction materials available.

#### X-Ray and Microscopical Examinations

The X-ray laboratory has been very active and assistance was given to government departments in the testing of castings.

Radiographic examinations were made on 21,537 light metal castings, 8,251 bronze and steel castings and 36 miscellaneous items such as heaters, bushings and small transformers.

Microscopical examinations on 155 samples of metal were made to observe the nature of the material structure.

#### Transmission Line Materials

Inspection of transmission line materials which are handled at Strachan Avenue stores was continued through the year and included crossarms, brackets, insulator pins, clamps, general hardware, wire and cable. The amount of copper wire and galvanized steel cable inspected was 575 tons, being more than twice the quantity inspected last year.

#### Steel and Timber

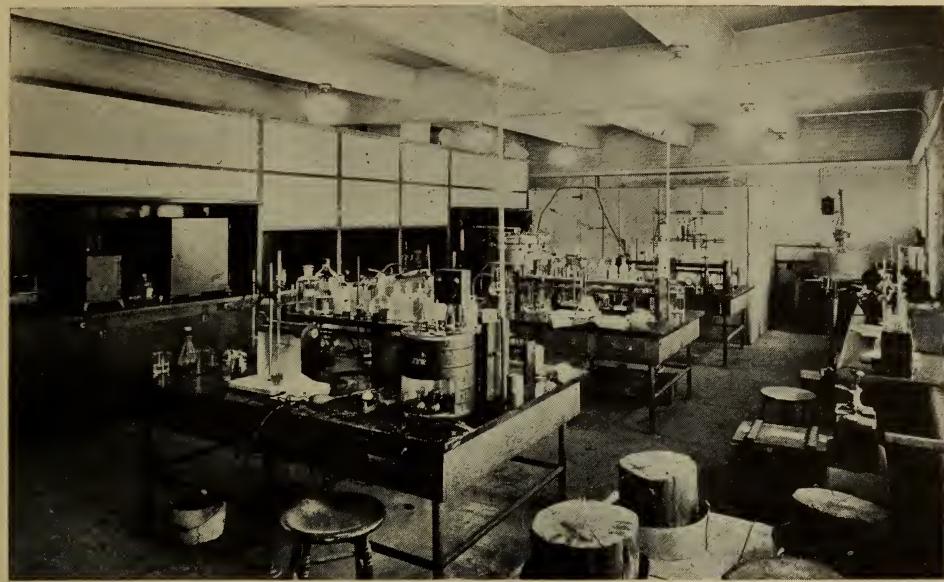
Structural and reinforcing steel for new installations was inspected to the amount of 144 tons. A total of 14,609 pine and cedar poles for distribution line construction also were examined.

#### Chemical Testing

Protective coatings, including paints and substitutes used by the Commission on construction projects, are tested regularly in the laboratories, the number of samples this year being 123.

Accelerated ageing tests of paints, made on the weatherometer, have proved to be a good guide in determining quality.

Baking tests were made on 18 samples of paint by infra-red rays. This work was the continuation of a development started a few years before to use infra-red rays in commercial installations for the purpose of drying paints and varnishes.



THE CHEMICAL LABORATORY

New testing benches and equipment, the fume cupboards at left and the weatherometer for accelerating testing of paints in background

Petroleum products, 1,337 samples, were tested in this laboratory.

Tests were made on 491 samples of other organic and inorganic materials. Water samples and water treating materials were tested and also some concrete materials, metals and alloys.

#### Lamps and Lighting Equipment

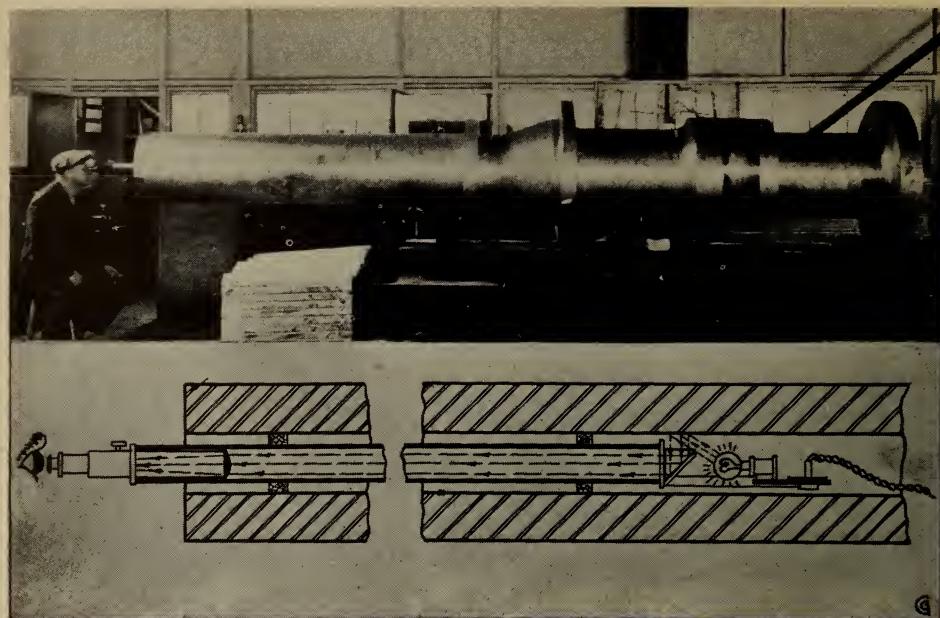
The number of lamps examined and tested in the factory was 72,226. Life tests were made on 3,262 lamps.

#### New Equipment

The Laboratories are still limited by wartime restrictions in the purchase of new testing equipment. It has been possible, however, to purchase some equipment required and to obtain necessary parts for other apparatus which has been designed and assembled for special applications.

A galvanometer of high sensitivity was purchased for measuring insulation resistance in the Wire Test laboratory, and also an additional test oven and voltage control equipment. An electrical indicating tachometer was bought for use in testing rotating equipment in the laboratory and in the field.

Equipment was assembled for conducting bend tests on weld samples. Special grips were made for use in tension tests on metallic materials. An ozone generator with simplified control was designed and built for testing insulation on wires and cables. Variable speed motor drive for the 20,000



#### INSPECTION OF HOLLOW SHAFTS BY THE BOROSCOPE

This instrument, consisting of a reflecting prism, telescope and suitable source of illumination, is used for inspecting the interior surfaces of bored shafts up to 48 feet in length

lb. universal testing machine was constructed. An optical device for searching for faults within the bores of long hollow shafts was designed and completed, and was applied in factory inspection.

#### Specification and Committee Work

Members of the laboratory staff as representatives of the Commission, attended meetings and conferences of the following organizations, assisted in the preparation of specifications and were active in other committee work. Canadian Standards Association, National Research Council, Canadian Electrical Association, Engineering Institute of Canada, American Institute of Electrical Engineers, American Concrete Institute, American Society for Testing Materials, International Association of Electrical Inspectors, Canadian Manufacturers' Association, Ontario Municipal Electric Association, Association of Municipal Electrical Utilities, Illuminating Engineering Society, Wartime Labour Relations Board, Wartime Prices and Trade Board, Department of Munitions and Supply, Wartime Bureau of Technical Personnel, and Dominion Board of Fire Underwriters.

#### APPROVALS LABORATORY

This Laboratory acts as agent of the Canadian Standards Association, taking care of approvals testing and factory re-examination of electrical equipment for Canada, and for manufacturers in the United States who would sell their products in Canada and have applied for approval under the Canadian Electrical Code.

The Approvals Engineer attended meetings of the Approvals Administrative Board, the Approvals Council, Canadian Electrical Code Committee Part II and the CSA Committee on Electric Range Switches.

A review of the statistical report from the Approvals Division shows that applications for approval have returned nearly to the same number as were received two years previously and that the sale of approval labels has increased materially. Factory inspection reports are practically the same in number as in the previous year. Members of the staff have been consulted by manufacturers desiring to use substitutes for approved parts during the period of shortage of material caused by the war and again are being consulted by some manufacturers who are preparing to produce electrical equipment for civilian consumption at the end of the war.

### ELECTRICAL INSPECTION DEPARTMENT

The relaxation of wartime restrictions, particularly in its effect upon electrical installations in rural areas, has increased the volume of work handled by the Electrical Inspection department.

#### Statistical

A total of 83,363 permits was issued, an increase of 17,848, or 27 per cent over the previous year, and 149,960 inspections were made, an increase of 12,845, or 9.4 per cent.

#### Fires Attributed to Electricity

Numerous investigations of fires were made but of the fires reported as having been due to electric wiring or equipment, only six were found definitely to have started from these sources. These were caused by short circuits in armoured cable, in non-metallic sheathed cable and in flexible conduit, by irons left heating and unattended in domestic establishments, and by an overloaded canopy switch which set fire to the ceiling.

#### Electrocutions and Fatal Accidents

Six persons were accidentally electrocuted in Ontario by coming into contact with wiring and equipment. A child touched a live toaster element while sitting on a metal sink; a machinist standing on a wet floor was working on an ungrounded electrically-operated grinder which had been connected temporarily; two men were attempting to move ungrounded portable coal loaders while standing on the ground; one man was attempting to move a portable welder, the machine being alive due to a defective supply cable; one man was working on a pole making alterations to overhead yard feeders on a neighbour's farm.

#### Accidents, Non-Fatal

Two persons were reported as having received shock or injury which did not result in death. One of these received a severe shock while helping to move one of the coal loaders already mentioned. The other, an operator, received severe burns while working in a private sub-station.

#### Ground Tests

A total of 2,350 tests of consumers' grounds was made, nearly five times as many as in the previous year. This increase was due to the removal of some of the wartime restrictions applicable to wiring in rural areas.

**Infractions of Regulations**

Twenty-three persons or companies were prosecuted for various infractions of the rules and regulations governing the installation, sale and disposal of electrical equipment.

**Special Inspection of Equipment**

Some 656 applications were received from manufacturers and distributors of electrical equipment for the approval of devices not listed as approved by the Canadian Standards Association. The department reported on 1,075 applications for special inspection or equipment.

**Canadian Electrical Code**

Engineers of the Approvals laboratory, and members of the Electrical Inspection staff and the Engineering department, attended seven meetings and assisted in compiling and revising sections of Parts I, II and IV of the Code.

The work on Part I of the Code, on Electrical Installations, includes issuing interim revisions and interpretations and attending meetings of the Central Committee. Part II, on Approvals Specifications for Electrical Equipment, involves the preparation of draft specifications and interim revisions of published specifications, and also requires attendance at meetings with Part II Committee.

The work on Part IV, on Radio Interference, includes preparations of drafts of sections of specifications for the purpose of ensuring good practice in methods of suppressing radio interference. Attendance also is necessary at meetings of the Committee on Part IV and at meetings of panels and sub-panels of the main committee.

No new specifications were issued during the year but three specifications were advanced. This work has been in abeyance due to the war.

**PRODUCTION AND SERVICE DEPARTMENT**

The operation of the garage continued on a satisfactory basis. The volume of work was approximately equal to that of the previous year and included overhauling 82 trucks and reconditioning 30 units of gasoline-driven equipment for the Construction and Operating departments. Miscellaneous truck repairs, 1,375 orders, also were completed.

Curtailment in the manufacture of commercial vehicles limited the purchases by the Commission to two trucks. All efforts, therefore, were confined to maintaining and rebuilding existing equipment.

The policy of systematically inspecting and repairing the Commission's fleet of 380 trucks was continued. During the fiscal year, the fleet operated a total of 2,831,877 miles, an increase of 13.2 per cent over the previous year but still a gross reduction of 16.6 per cent since gasoline rationing was first instituted.

The volume of work in the machine shop was much greater than in the previous year. Work completed for the various departments of the Commission increased 10 per cent, and in addition war work done under the auspices of the Public Utilities Wartime Workshop Board increased to the point where it was necessary to devote an additional 2,000 sq. ft. of floor space for this purpose.

## SECTION IX

### FINANCIAL STATEMENTS

Relating to

Properties Operated by The Hydro-Electric Power Commission on  
behalf of Co-operating Municipalities of the Southern Ontario  
System (Niagara, Georgian Bay and Eastern Ontario Divisions)  
and the Thunder Bay System,

and to

Northern Ontario Properties Held and Operated by the Commission  
in Trust for the Province of Ontario, and  
The Hamilton Street Railway Company—A Subsidiary of  
the Southern Ontario System

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IN this section of the Report financial statements relating to the activities of The Hydro-Electric Power Commission, segregated into certain distinct divisions, are presented. The first division relates to those activities on behalf of the co-operative municipalities, which are partners in the main Hydro undertaking comprising the Southern Ontario system (Niagara, Georgian Bay and Eastern Ontario divisions), the Thunder Bay system, and Rural Power districts associated with these two systems. The second relates to the administration of the Northern Ontario Properties which are held and operated by the Commission in trust for the Province of Ontario. The third relates to The Hamilton Street Railway Company, a wholly-owned subsidiary of the Southern Ontario system.

#### Co-operative Systems

In the Foreword to this Report a brief reference is made to the basic principle governing the operations of the Hydro undertaking in supplying electrical service at cost, and to the wholesale and retail aspects of the work. A description is also given of the systems into which the partner municipalities are co-ordinated for securing common action with respect to power supplies, through the medium of The Hydro-Electric Power Commission which, under The Power Commission Act, functions as their Trustee.

Although for the purpose of financial administration the Southern Ontario and Thunder Bay systems are separate units, there is a similarity of procedure with respect to their operation which enables certain financial statements, as for example the various reserves, to be co-ordinated and presented in summary tables.

The first set of tables in Section IX gives collective results for the co-operative activities related to the two systems. These tables include a **balance sheet**; a **statement of operations and cost distribution** as detailed in the "cost of power" tables referred to below; schedules respecting **fixed assets, capital expenditures and grants—rural power districts, account with the Provincial Treasurer of the Province of Ontario, funded debt issued or assumed, power accounts receivable, renewals reserves, contingencies and obsolescence reserves, stabilization of rates reserves and sinking fund reserves.**

The tables which follow these general financial statements relate more particularly to the individual municipality's aspects of the wholesale activities of the Commission and for each system show the **cost of power** to the individual municipal utilities, the **credit or debit adjustment** remaining at the end of the fiscal year, and the **sinking fund** equity that has been acquired by the individual municipality. There is also included for each system a **rural operating statement**.

The charges for power supplied by the Commission to the various municipalities vary with the amounts of power used, the distances from the sources of supply and other factors. The entire capital cost of the various power developments and transmission systems is annually allocated to the connected municipalities and other wholesale power consumers, according to the relative use made of the lines and equipment. In general each municipality assumes responsibility for that portion of property employed in providing and transmitting power for its use,\* together with such expenses—including the cost of purchased power if any—as are incidental to the provision and delivery of its wholesale power. The annual expenses and the appropriations for reserves are provided out of revenues collected in respect of such power, through the medium of power bills rendered by the Commission. The municipalities are billed at an estimated interim rate each month during the year and credit or debit adjustment is made at the end of the year,† when the Commission's books are closed and the actual cost payable by each municipality for power taken has been determined.

Included in the municipality's remittance to the Commission for the wholesale cost of power—besides such current expenses as those for operation and maintenance of plant, for administration, and for interest on capital—are sums required to build up reserves for sinking fund, for renewals, and for contingencies and obsolescence. The first-mentioned reserve, namely, sinking fund, is being created on a 40-year basis for the purpose of liquidating

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\*Subject to maximum rate; see footnote on page 122.

†The financial year for the Commission ends on October 31. The financial year for the municipal electric utilities however, ends on December 31, and the municipal accounts are made up to this date, and so recorded in Section X.

capital liabilities. The other reserves are, respectively, being created to provide funds for the replacing or rebuilding of plant as it wears out; to enable the undertaking to replace existing equipment with improved equipment as it becomes available through advances in science and invention, and to meet unforeseen expenses which from time to time may arise.

The ultimate source of all revenue to meet costs—whether for the larger operations of The Hydro-Electric Power Commission or for the smaller local operations of the municipalities—is, of course, the consumer. Out of the total revenue collected by each municipal utility from its consumers for service supplied, only an amount sufficient to pay the wholesale cost of power supplied by the Commission as outlined above is remitted to the Commission; the balance of municipal electrical revenue is retained to pay for the expense incurred by the local utility in distributing the electrical energy to its consumers.

### Tabular Data

The following comments relate to the tabular data presented:

**Balance Sheet.**—The first tabular statement given in Section IX is a balance sheet showing the assets, and the liabilities and reserves of the co-operative systems.

**Statement of Operations.**—This statement is a summary of operating expenses and fixed charges as shown in the "cost of power" tables and rural operating statements relating to the individual systems as referred to more particularly below.

**Fixed Assets.**—Details are given concerning the various fixed assets of each system and of the miscellaneous properties, showing in separate classifications the values of plant under construction and in service, depreciable and non-depreciable.

**Capital Expenditures and Grants.—Rural Power Districts.**—This schedule gives summary information respecting the total capital expenditures on rural power districts and grants-in-aid of construction paid or payable by the Province with respect to such rural districts.

**Account with the Provincial Treasurer.**—This schedule lists, both for the systems operated on a cost basis, and for the Northern Ontario Properties which are held and operated by the Commission in trust for the Province, the advances from the Province of Ontario and the repayments which have been applied to reduce this liability. It should be noted that Provincial advances to finance Northern Ontario Properties are shown in memorandum form only on the balance sheet of the Commission as the direct liability is carried on the Northern Ontario Properties' balance sheet.

**Funded Debt Issued or Assumed.**—This schedule presents a complete list of the outstanding securities issued or assumed by the Commission on account of the systems, and the Northern Ontario

Properties. It should be noted that securities issued to finance Northern Ontario Properties are shown only in memorandum form on the balance sheet of the Commission, whilst the direct liability is shown on the balance sheet of the Northern Ontario Properties.

**Power Accounts Receivable.**—This schedule sets forth the amounts collectable from all classes of power consumers and includes the annual adjustment figures from the "credit or charge" statements for municipalities. The main details of these debit balances three months or more overdue are stated.

**Renewals Reserves,  
Contingencies and Obsolescence Reserves, and  
Stabilization of Rates Reserves.**

These schedules show the provisions made to, the expenditures from, and the balance to the credit of, these reserves for each of the systems and other properties included in the power undertakings operated on a cost basis.

**Sinking Fund Reserves.**—This schedule summarizes the appropriations of principal and interest with respect to these reserves for each of the systems and certain other properties.

Following these statements, which are common to all systems, there are given for each of the co-operative systems four tabular statements as follows:

**Cost of Power** statement, which shows the apportionment to each municipality of the items of cost summarized in Statement of Operations, as well as the apportionment of fixed assets in service listed in the balance sheet and the amount of power taken by each municipality. It should be noted that the cost of power given in this table is the wholesale cost—that is, the cost which the Commission receives for the power delivered from the main transformer stations serving the local utility. In the case of municipal electrical utilities not directly administered by the Commission, the respective costs of power appear in Statement "B" of Section X as "cost of power supplied by H-E.P.C."

**Credit or Charge** statement, which shows the adjustments made in order to bring the amounts paid by each municipal electric utility to the actual cost of service.

**Sinking Fund** statement, which gives the accumulated total of the amounts paid by each municipality as part of the cost of power together with its proportionate share of other sinking funds.

**Rural Operating** statement, which summarizes for the rural power district of the system the various items of cost, and the revenues received, in connection with the distribution of electrical energy to rural consumers.

## Northern Ontario Properties

The statements and schedules respecting these properties which are held and operated by the Commission in trust for the Province of Ontario include the balance sheet, operating account, schedule of fixed assets, renewals reserve, contingencies and obsolescence reserve, and sinking fund reserve. These schedules are similar in form to the corresponding schedules relating to the co-operative systems.

## The Hamilton Street Railway Company

This is a wholly-owned subsidiary of the Southern Ontario system of the Commission. A balance sheet and operating statement are presented.

## Municipal Utilities

All municipal Hydro utilities have current expenses to meet similar to the expenses of the Commission and have adopted the same financial procedure with respect to their operations. In other words, concurrently with the creation of funds to liquidate their debt to the Commission and to provide the necessary reserves to protect generating, transforming and transmission systems, the municipalities are taking similar action with respect to their local Hydro utility systems.

The balance sheets, operating reports and statistical data appearing in Section X, under the heading of "Municipal Accounts", relate to the operation of local distribution systems by individual municipalities which have contracted with the Commission for their supply of electrical energy. To this section there is an explanatory introduction to which the reader is specifically referred.

## Auditing of Accounts

The accounts of The Hydro-Electric Power Commission of Ontario are verified by auditors specially appointed by the Provincial Government. The accounts of the "Hydro" utility of each individual municipality are prepared according to approved and standard practice and The Public Utilities Act requires that they shall be audited by the auditors of the municipal corporation.



**THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO****FINANCIAL ACCOUNTS****For the year ended October 31, 1944**

**Relating to Properties operated on a "Cost Basis" for the Co-operating Municipalities and Rural Power Districts which are supplied with Electrical Power and Services from the following Properties:**

**Southern Ontario System .**

**(Embracing Niagara, Georgian Bay  
and Eastern Ontario Divisions)**

**Thunder Bay System**

**Service and Administrative  
Buildings and Equipment**

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**STATEMENTS**

**Balance Sheet as at October 31, 1944**

**Statement of Operations and Cost of Power for the year ended  
October 31, 1944**

**Schedules supporting the Balance Sheet as at October 31, 1944:**

**Fixed Assets—By Systems and Properties**

**Capital Expenditures and Grants—Rural Power Districts**

**Account with the Provincial Treasurer of the Province of Ontario**

**Funded Debt Issued or Assumed**

**Power Accounts Receivable**

**Renewals Reserves**

**Contingencies and Obsolescence Reserves**

**Stabilization of Rates Reserves**

**Sinking Fund Reserves**

**Statements for Municipalities Receiving Power under Cost Contracts**

**THE HYDRO-ELECTRIC POWER  
SOUTHERN ONTARIO AND  
BALANCE SHEET AS AT**

**ASSETS**

**FIXED ASSETS:**

Southern Ontario system.....	\$303,607,172.96
Thunder Bay system.....	20,857,639.92
Service and administrative buildings and equipment.....	4,254,910.50
Less grants-in-aid of construction:	\$328,719,723.38
Province of Ontario—for rural power districts.....	20,013,585.60
	<u>\$308,706,137.78</u>

**INVESTMENTS:**

The Hamilton Street Railway Company (a wholly-owned subsidiary)—capital stock.....	\$ 3,000,000.00
Other investments.....	234,125.00

**CURRENT ASSETS:**

Cash in banks.....	\$ 216,240.99
Employees' working funds.....	64,578.31
Sundry accounts receivable.....	701,391.66
Power accounts receivable.....	2,865,291.07
Interest accrued.....	621,165.79
Consumers' and contractors' deposits:	
Cash deposits.....	\$ 14,454.52
Securities—at par value.....	915,049.19
	<u>929,503.71</u>
Prepayments.....	25,489.58
	<u>5,423,661.11</u>

**INVENTORIES:**

Construction and maintenance materials and supplies.....	\$ 2,464,155.66
Construction and maintenance tools and equipment.....	654,376.90
Office equipment.....	142,069.00

3,260,601.56

**DEFERRED ASSETS:**

Agreements and mortgages.....	\$ 68,451.34
Rural district loans.....	2,114.41
Work in progress—deferred work orders.....	288,303.86

358,869.61

**UNAMORTIZED DISCOUNT ON DEBENTURES:**

518,454.36

**RESERVE FUND INVESTMENTS:**

Investments in government and government guaranteed bonds, at amortized cost:	
Employers' liability insurance fund.....	\$ 1,018,678.29
Pension fund.....	9,047,299.87
Other reserves.....	52,406,186.87

62,472,165.03

**SINKING FUNDS:**

Deposits in the hands of trustees—including temporary investments.....	86,002.78
	<u>\$384,060,017.23</u>

**COMMISSION OF ONTARIO**  
**THUNDER BAY SYSTEMS**

OCTOBER 31, 1944

**LIABILITIES AND RESERVES**

**LONG TERM LIABILITIES (at par of exchange):**

Funded debt, issued or assumed.....	\$100,274,000.00
Less debentures issued to finance Northern Ontario	
Properties.....	20,678,800.00
	\$ 79,595,200.00

Advances from the Province of Ontario.....	\$96,370,915.25
Less advances for Northern Ontario	
Properties.....	5,638,174.72
	90,732,740.53

Purchase agreements.....	59,206.52
	\$170,387,147.05

**CURRENT LIABILITIES:**

Accounts and payrolls payable.....	\$ 2,214,234.67
Power accounts—credit balances.....	548,919.42
Hamilton Street Railway Company—current account.....	791,809.51
Northern Ontario Properties—current account.....	2,393,599.51
Advances from the Province of Ontario for rural loans.....	2,191.00
Consumers' and contractors' deposits.....	997,776.52
Debenture interest accrued.....	639,191.82
Miscellaneous interest accrued.....	2,370.63
Miscellaneous accruals.....	285,892.01
Rural power district grants—not allocated.....	33,620.72
	7,909,605.81

RURAL POWER DISTRICTS—rates suspense, net.....	2,693,998.73
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**RESERVES:**

Renewals.....	\$ 61,032,343.34
Contingencies and obsolescence.....	32,482,916.97
Stabilization of rates.....	16,531,243.91
Fire insurance.....	132,583.65
Investment—subsidiary.....	1,483,561.07
	\$111,662,648.94
Employers' liability insurance.....	1,340,087.93
Pension fund.....	9,248,123.60
Savings and retirement fund.....	192,452.31
Miscellaneous.....	575,169.89
	123,018,482.67

**SINKING FUND RESERVE:**

Represented by:

Funded debt and provincial advances retired through sinking funds.....	\$ 79,964,780.19
Deposits in the hands of trustees—contra.....	86,002.78
	80,050,782.97
	\$384,060,017.23

**Auditors' Report**

We have made an examination of the balance sheet of the Southern Ontario and Thunder Bay Systems of The Hydro-Electric Power Commission of Ontario as at October 31, 1944 and of the attached statement of operations for the year ended on that date. In connection therewith we examined or tested accounting records of the Commission and made a general review of the accounting methods and of the operating and income accounts for the year, but we did not make a detailed audit of the transactions.

We report that in our opinion the foregoing balance sheet and related statement of operations, as more fully reported upon by us to the Lieutenant-Governor in Council, have been drawn up so as to exhibit a true and correct view of the state of the affairs of the Southern Ontario and Thunder Bay Systems of the Commission at October 31, 1944 (subject to the trusts which prevail in respect thereto) and the results of their operations for the year ended on that date, according to the best of our information and the explanations given us and as shown by the books.

CLARKSON, GORDON, DILWORTH & NASH,

Chartered Accountants.

**THE HYDRO-ELECTRIC POWER  
SOUTHERN ONTARIO AND  
Statement of Operations for the**

	Southern Ontario system
	\$      c.
Cost of power:	
Cost of power purchased.....	10,807,512.45
Operating, maintenance and administrative expenses.....	6,517,933.86
Interest (including interest on sinking fund, renewals, and other reserves).....	10,847,640.18
Provision for renewals.....	2,185,426.85
Provision for contingencies and obsolescence.....	9,430,542.93
Provision for stabilization of rates.....	.....
Provision for sinking fund.....	2,784,693.28
Total.....	42,573,749.55
Amounts received from or billed against municipalities and other customers:	
Municipalities (at interim rates).....	27,204,922.19
Rural power districts.....	2,191,068.10
Companies.....	16,046,791.53
Mining area.....	.....
Local distribution system.....	176,600.08
Rural lines operated by municipalities.....	131.52
Total.....	45,619,513.42
Balance, credited or charged to municipalities on annual adjustment of the cost of power:	
Credited.....	3,045,763.87
Charged.....	.....
Net credit.....	3,045,763.87

**COMMISSION OF ONTARIO****THUNDER BAY SYSTEMS****Year Ended October 31, 1944**

Thunder Bay system	Distribution in rural power districts	Elimination	Total
\$ c.	\$ c.	\$ c.	\$ c.
387,650.83	2,206,764.93 1,454,061.00	2,206,764.93 .....	10,807,512.45 8,359,645.69
915,181.93	818,867.61	.....	12,581,689.72
160,074.39	393,099.19	.....	2,738,600.43
548,381.71	.....	.....	9,978,924.64
33,793.90	.....	.....	33,793.90
195,594.71	209,579.55	.....	3,189,867.54
2,240,677.47	5,082,372.28	2,206,764.93	47,690,034.37
807,583.55	.....	.....	28,012,505.74
15,696.83	5,514,998.83	2,206,764.93	5,514,998.83
972,501.07	.....	.....	17,019,292.60
533,716.74	.....	.....	533,716.74
.....	.....	.....	176,600.08
.....	.....	.....	131.52
2,329,498.19	5,514,998.83	2,206,764.93	51,257,245.51
88,820.72	434,477.09 1,850.54	.....	3,569,061.68 1,850.54
88,820.72	432,626.55	.....	3,567,211.14

## THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

Fixed Assets—October 31, 1944

## SOUTHERN ONTARIO SYSTEM

Embracing Niagara, Georgian Bay and Eastern Ontario Divisions

Property	Fixed Assets					
	Under construction	In service		\$	c.	Total
		\$	c.			
POWER PLANTS						
Niagara Division:						
Niagara river:						
Queenston-Chippawa.....	2,348.52	46,726,712.52	28,741,865.09	75,470,926.13		
Ontario Power.....		7,281,151.42	14,443,005.93	21,724,157.35		
Toronto Power.....	66.50	3,823,379.60	7,622,170.92	11,445,617.02		
Ottawa river:						
Chats Falls.....		818,263.01	6,372,280.09	7,190,543.10		
Des Joachims power site						
surveys.....	241,277.67					241,277.67
Power sites.....	50,002.00					50,002.00
Welland canal:						
DeCew Falls.....		6,542,321.90	9,652,739.21	16,195,061.11		
Long Lake diversion.....		256,910.72	620,304.79	877,215.51		
Ogoki diversion.....		2,790,000.00	2,062,152.73	4,852,152.73		
Preliminary river surveys.....		30,242.35		30,242.35		
Georgian Bay Division:						
Muskoka river: (below lake)						
Bala No. 1 and No. 2.....		29,191.00	43,216.77	72,407.77		
Ragged Rapids.....		70,889.49	1,261,109.55	1,331,999.04		
Big Eddy.....		170,467.76	1,123,100.46	1,293,568.22		
Lands and water rights.....		17,224.03		17,224.03		
Severn river:						
Wasdells.....		15,302.32	132,392.92	147,695.24		
Big Chute.....		122,540.48	562,596.65	685,137.13		
Beaver river:						
Eugenia.....		142,538.73	1,147,783.46	1,290,322.19		
Saugeen river:						
Hanover.....		10,000.00		10,000.00		
Walkerton.....		100,372.31	117,123.34	217,495.65		
Southampton.....		1.00		1.00		
Muskoka river: (above lake)						
South Falls.....		17,934.95	436,726.95	454,661.90		
Trethewey Falls.....		51,549.45	305,718.47	357,267.92		
Hanna Chute.....		34,256.73	207,714.10	241,970.83		
Hollow Lake dam.....		16,622.32	29,540.16	46,162.48		
Lake of Bays outlet.....		1.00		1.00		
Sauble river:						
Lands and rights.....		4,200.00		4,200.00		
Gull river:						
Lands and rights.....		1.00		1.00		
Eastern Ontario Division:						
Fenelon river:						
Fenelon Falls.....		60,000.00	89,362.70	149,362.70		
Otonabee river:						
Auburn.....		31,400.00	290,275.05	321,675.05		
Lakefield.....		19,620.05	216,729.40	236,349.45		
Trent river:						
Heely Falls.....			1,202,112.81	1,202,112.81		
Seymour.....			316,353.92	316,353.92		
Ranney Falls.....	85.55		1,364,996.25	1,365,081.80		
Ranney Falls No. 3.....		18,596.20	54,489.18	73,085.38		
Crow river.....		1,000.00		1,000.00		

## THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

Fixed Assets—October 31, 1944

## SOUTHERN ONTARIO SYSTEM

Embracing Niagara, Georgian Bay and Eastern Ontario Divisions

Property	Fixed Assets				Total	
	Under construction	In service				
		Non-depreciable	Depreciable			
	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	
POWER PLANTS—(Continued)						
Trent river:—(Continued)						
Hagues Reach.....			573,262.30		573,262.30	
Meyersburg.....			837,865.91		837,865.91	
Sills Island.....		38,679.36	283,094.84		321,774.20	
Frankford.....			252,398.83		252,398.83	
Sidney.....			250,996.46		250,996.46	
Mississippi river:						
High Falls.....		13,154.84	705,116.58		718,271.42	
Carleton Place.....		9,929.06	47,817.10		57,746.16	
Galetta.....		20,000.00	127,888.21		147,888.21	
Madawaska river:						
Barrett Chute.....		701,021.57	3,804,900.94		4,505,922.51	
Calabogie.....		80,825.74	677,629.51		758,455.25	
Bark Lake dam.....		608,665.93	781,962.39		1,390,628.32	
Kaminiskeg Lake dam.....		17,808.77	1,795.46		19,604.23	
Undeveloped sites.....		470,000.00			470,000.00	
Miscellaneous.....	13.00		46,071.28		46,084.28	
Intangible.....		2,217,761.29			2,217,761.29	
	293,793.24	73,380,536.90	86,806,660.71		160,480,990.85	
TRANSFORMER STATIONS						
Niagara Division.....	128,371.34		48,599,898.57		48,728,269.91	
Georgian Bay Division.....	895.82		2,060,757.91		2,061,653.73	
Eastern Ontario Division.....	30,588.89	76,296.26	4,547,791.73		4,654,676.88	
TRANSMISSION LINES						
Niagara Division:	159,856.05	76,296.26	55,208,448.21		55,444,600.52	
Lines.....	33,472.44		29,471,972.62		29,505,445.06	
Right-of-way.....		8,833,707.36			8,833,707.36	
Georgian Bay Division.....	4,499.17		2,750,836.08		2,755,335.25	
Eastern Ontario Division.....	34,586.67	461,586.48	5,847,840.61		6,344,013.76	
	72,558.28	9,295,293.84	38,070,649.31		47,438,501.43	
LOCAL SYSTEMS						
Niagara Division.....			237,217.69		237,217.69	
Georgian Bay Division.....	854.39		105,217.90		106,072.29	
Eastern Ontario Division.....		703.00	32,212.21		32,915.21	
	854.39	703.00	374,647.80		376,205.19	
Sub-total.....	527,061.96	82,752,830.00	180,460,406.03		263,740,297.99	
RURAL POWER DISTRICT						
H-E.P.C. investment.....		38,655.97	20,070,798.08		20,109,454.05	
Government grants.....			19,756,058.08		19,756,058.08	
	38,655.97	39,826,856.16			39,865,512.13	

## THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

Fixed Assets—October 31, 1944

## SOUTHERN ONTARIO SYSTEM

Embracing Niagara, Georgian Bay and Eastern Ontario Divisions

Property	Fixed Assets			
	Under construction	In service		Total
		Non-depreciable	Depreciable	
RURAL LINES	\$	\$	\$	\$
Niagara Division.....	c.	c.	c.	c.
Georgian Bay Division.....			440.82 922.02	440.82 922.02
			1,362.84	1,362.84
	527,061.96	82,791,485.97	220,288,625.03	303,607,172.96
		Cost statements	Transfers for cost purposes	Fixed assets as above
Cost of Power schedules.....		\$ c.	\$ c.	\$ c.
Rural Operating schedules.....		263,612,036.89 20,237,715.15	128,261.10 128,261.10	263,740,297.99 20,109,454.05
Rural Lines schedules.....		1,362.84		1,362.84

## THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

Fixed Assets—October 31, 1944

## THUNDER BAY SYSTEM

Property	Fixed Assets			
	Under construction	In service		Total
		Non-depreciable	Depreciable	
POWER PLANTS:	\$	\$	\$	\$
Nipigon river:				
Cameron Falls.....		857,418.84	9,057,364.53	9,914,783.37
Alexander.....	577,953.63	76,898.44	5,260,786.15	5,915,638.22
Virgin Falls dam.....		55,450.41	426,736.74	482,187.15
	577,953.63	989,767.69	14,744,887.42	16,312,608.74
TRANSFORMER STATIONS.....	8,127.92	352,351.13	897,464.09	1,257,943.14
TRANSMISSION LINES.....	310.53	962,324.32	1,722,868.91	2,685,503.76
LOCAL SYSTEMS.....		86,529.25		86,529.25
Sub-total.....	586,392.08	2,390,972.39	17,365,220.42	20,342,584.89
RURAL POWER DISTRICT:				
H-E.P.C. investments.....			257,527.51	257,527.51
Government grants.....			257,527.52	257,527.52
			515,055.03	515,055.03
	586,392.08	2,390,972.39	17,880,275.45	20,857,639.92

	Cost statements	Fixed Assets as above
Cost of Power schedules.....	\$ c.	\$ c.
Rural Operating schedules.....	20,342,584.89 257,527.51	20,342,584.89 257,527.51

## THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

Fixed Assets—October 31, 1944

## ADMINISTRATIVE AND SERVICE BUILDINGS AND EQUIPMENT

Property	Fixed Assets			
	Under construction	In service		Total
		Non-depreciable	Depreciable	
ADMINISTRATIVE BUILDINGS:				
Toronto:				
University avenue.....	\$ 1,614.19	\$ 258,651.67	\$ 2,684,476.65	\$ 2,944,742.51
Elm and Centre streets.....			113,322.00	113,322.00
	1,614.19	258,651.67	2,797,798.65	3,058,064.51
SERVICE BUILDINGS AND EQUIPMENT:				
Toronto:				
Strachan avenue.....			574,600.91	574,600.91
1379 Bloor street west.....			50,000.00	50,000.00
Cobourg.....			22,245.08	22,245.08
Hamilton.....		\$ 550,000.00		\$ 550,000.00
		550,000.00	646,845.99	1,196,845.99
	1,614.19	808,651.67	3,444,644.64	4,254,910.50

## THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

Fixed Assets—October 31, 1944

## SUMMARY

System or property	Fixed Assets			
	Under construction	In service		Total
		Non-depreciable	Depreciable	
Southern Ontario system.....	\$ 527,061.96	\$ 82,791,485.97	\$ 220,288,625.03	\$ 303,607,172.96
Thunder Bay system.....	586,392.08	2,390,972.39	17,880,275.45	20,857,639.92
Service and administrative buildings and equipment.....	1,614.19	808,651.67	3,444,644.64	4,254,910.50
	1,115,068.23	85,991,110.03	241,613,545.12	328,719,723.38
Less: Grants in aid of construction: Province of Ontario for rural power districts.....			20,013,585.60	20,013,585.60
	1,115,068.23	85,991,110.03	221,599,959.52	308,706,137.78

**THE HYDRO-ELECTRIC POWER  
STATEMENT SHOWING CHANGES IN FIXED ASSETS**

Class of asset	Balance at beginning of year	Expenditure during year
<b>SOUTHERN ONTARIO SYSTEM</b>		
<b>POWER PLANTS</b>		
Niagara Division:		
Queenston-Chippawa.....	\$ 75,611,379.18	\$ 869.17
Ontario Power.....	21,724,480.78	
Toronto Power.....	11,445,550.52	66.50
Chats Falls.....	7,187,160.54	9,863.47
Des Joachims power site.....	223,728.76	17,548.91
DeCew Falls.....	15,377,621.61	832,939.50
Ogoki diversion.....	4,710,742.48	141,410.25
Other properties.....	906,923.39	50,536.47
Georgian Bay Division:		
Eugenia.....	1,296,940.70	
Ragged Rapids.....	1,331,848.29	168.75
Big Eddy.....	1,291,708.98	1,859.24
Big Chute.....	685,050.94	86.19
South Falls.....	454,661.90	
Trethewey Falls.....	357,267.92	
Other properties.....	845,186.92	358.25
Eastern Ontario Division:		
Hagues Reach.....	573,184.97	322.33
Auburn.....	321,675.05	
Seymour.....	316,781.03	4,479.73
Ranney Falls.....	1,438,946.90	119.21
Heely Falls.....	1,203,640.00	4,523.73
Meyersburg.....	837,865.91	
High Falls.....	698,608.90	22,214.40
Barrett Chute.....	4,434,111.69	71,810.82
Bark Lake dam.....	1,340,152.13	50,476.19
Calabogie.....	758,455.25	
Sills Island.....	321,395.42	378.78
Intangible and undeveloped sites.....	2,687,761.29	
Other properties.....	1,177,544.43	8,709.13
	159,560,375.88	1,218,741.02
<b>TRANSFORMER STATIONS</b>		
Niagara Division.....	48,798,102.39	1,120,487.74
Georgian Bay Division.....	2,044,405.89	24,558.83
Eastern Ontario Division.....	4,613,169.89	65,672.32
	55,455,678.17	1,210,718.89
<b>TRANSMISSION LINES</b>		
Niagara Division:		
Lines.....	30,349,500.00	89,369.77
Right-of-way.....	9,392,448.65	39,475.13
Georgian Bay Division.....	2,918,980.06	5,915.70
Eastern Ontario Division.....	6,304,891.14	42,661.14
	48,965,819.85	177,421.74

## COMMISSION OF ONTARIO

DURING YEAR ENDED OCTOBER 31, 1944

Adjustment for equipment re-located	Retirements		Balance at end of year
	Values recovered (stores, sales and salvage)	Charged to reserves for renewals and contingencies	
\$ 300.00	\$ 4,714.85	\$ 136,307.37	\$ 75,470,926.13
.....	323.43	.....	21,724,157.35
.....	215.00	6,265.91	11,445,617.02
11,700.00	3,800.00	.....	7,190,543.10
.....	.....	.....	241,277.67
.....	.....	.....	16,195,061.11
.....	.....	.....	4,852,152.73
.....	.....	.....	957,459.86
10.00	.....	6,608.51	1,290,322.19
.....	.....	18.00	1,331,999.04
.....	.....	.....	1,293,568.22
.....	.....	.....	685,137.13
.....	.....	.....	454,661.90
.....	.....	.....	357,267.92
.....	1,300.00	87,086.17	757,159.00
.....	22.51	222.49	573,262.30
.....	.....	.....	321,675.05
893.16	131.53	5,668.47	316,353.92
.....	.....	898.93	1,438,167.18
1,992.00	.....	8,042.92	1,202,112.81
.....	10.00	2,541.88	837,865.91
.....	.....	.....	718,271.42
.....	.....	.....	4,505,922.51
.....	.....	.....	1,390,628.32
.....	.....	.....	758,455.25
.....	.....	.....	321,774.20
.....	1,556.85	23,266.39	2,687,761.29
9,124.84	12,074.17	276,927.04	1,161,430.32
.....	.....	.....	160,480,990.85
8,610.01	454,624.77	727,085.44	48,728,269.91
4,623.89	331.11	11,603.77	2,061,653.73
1,623.00	2,132.73	23,655.60	4,654,676.88
2,363.12	457,088.61	762,344.81	55,444,600.52
.....	.....	.....	.....
135,518.70	111,304.38	957,639.03	29,505,445.06
13,050.17	4,354.40	606,912.19	8,833,707.36
143,661.54	3,088.12	22,810.85	2,755,335.25
766.92	84.48	2,687.12	6,344,013.76
4,140.41	118,831.38	1,590,049.19	47,438,501.43

**THE HYDRO-ELECTRIC POWER  
STATEMENT SHOWING CHANGES IN FIXED ASSETS**

Class of Asset	Balance at beginning of year	Expenditure during year
<b>SOUTHERN ONTARIO SYSTEM—Continued</b>		
<b>LOCAL SYSTEMS</b>		
Niagara Division.....	\$ 221,459.67	3,758.02
Georgian Bay Division.....	106,270.89	2,983.33
Eastern Ontario Division.....	32,726.94	618.30
Sub-total.....	360,457.50	7,359.65
<b>RURAL POWER DISTRICT</b>	264,342,331.40	2,614,241.30
H-E.P.C. investment.....	19,260,695.74	877,664.77
Government grants.....	18,933,371.31	851,593.20
Sub-total.....	38,194,067.05	1,729,257.97
<b>RURAL LINES</b>		
Niagara Division.....	20,058.42	.....
Georgian Bay Division.....	922.02	.....
Sub-total.....	20,980.44	.....
Southern Ontario system—Total.....	302,557,378.89	4,343,499.27
<b>THUNDER BAY SYSTEM:</b>		
Power plants.....	15,737,491.83	577,953.63
Transformer stations.....	1,256,175.44	8,396.70
Transmission lines.....	2,683,031.01	2,472.75
Local systems.....	85,527.88	1,031.37
Sub-total.....	19,762,226.16	589,854.45
<b>RURAL POWER DISTRICT</b>		
H-E.P.C. investment.....	250,416.45	8,453.29
Government grants.....	250,416.44	8,453.29
Sub-total.....	500,832.89	16,906.58
Thunder Bay system—Total.....	20,263,059.05	606,761.03
<b>SERVICE AND ADMINISTRATIVE BUILDINGS AND EQUIPMENT:</b>		
Toronto—University avenue.....	2,906,493.85	38,248.66
—Elm and Centre streets.....	160,821.95	.....
—Strachan avenue.....	562,864.44	11,736.47
Other properties and equipment.....	622,245.08	.....
Total.....	4,252,425.32	49,985.13
Grand total.....	327,072,863.26	5,000,245.43
Less: Grants in aid of construction:		
Province of Ontario for rural power districts.....	19,183,787.75	829,797.85
Total fixed assets.....	307,889,075.51	4,170,447.58

## COMMISSION OF ONTARIO

DURING YEAR ENDED OCTOBER 31, 1944

Adjustment for equipment re-located	Retirements		Balance at end of year
	Values recovered (stores, sales and salvage)	Charged to reserves for renewals and contingencies	
\$   c.	\$   c.	\$   c.	\$   c.
12,000.00	.....	.....	237,217.69
3,059.93	122.00	430.03	106,072.29
.....	.....	.....	32,915.21
8,940.07	122.00	430.03	376,205.19
1,592.52	588,116.16	2,629,751.07	263,740,297.99
796.26	4,822.43	23,287.77	20,109,454.05
796.26	4,822.41	23,287.76	19,756,058.08
1,592.52	9,644.84	46,575.53	39,865,512.13
.....	19,617.60	.....	440.82
.....	.....	.....	922.02
.....	19,617.60	.....	1,362.84
.....	617,378.60	2,676,326.60	303,607,172.96
.....	1,267.59	1,569.13	16,312,608.74
.....	338.42	6,290.58	1,257,943.14
.....	.....	30.00	2,685,503.76
.....	.....	.....	86,529.25
.....	1,606.01	7,889.71	20,342,584.89
.....	731.77	610.46	257,527.51
.....	731.76	610.45	257,527.52
.....	1,463.53	1,220.91	515,055.03
.....	3,069.54	9,110.62	20,857,639.92
.....	.....	.....	2,944,742.51
.....	.....	47,499.95	113,322.00
.....	.....	.....	574,600.91
.....	.....	.....	622,245.08
.....	.....	47,499.95	4,254,910.50
.....	620,448.14	2,732,937.17	328,719,723.38
.....	.....	.....	20,013,585.60
.....	620,448.14	2,732,937.17	308,706,137.78
Renewals.....	.....	901,432.36	
Contingencies.....	.....	1,831,504.81	
		2,732,937.17	

## THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

## CAPITAL EXPENDITURES AND GRANTS—RURAL POWER DISTRICTS

Summary at October 31, 1944

Statement showing the Total Capital Expenditures to October 31, 1944, on the construction of Primary and Secondary lines in Rural Power Districts; the investment in lines in operation; also the amounts of the Grants (fifty per cent of both Primary and Secondary lines) paid or payable to the Commission by the Province of Ontario up to October 31, 1944

System	Total capital expenditure	In operation	Grants (50% of Primary and Secondary lines) paid or payable by the Province as authorized by Orders-in-Council*
Southern Ontario system.....	\$ 39,865,512.13	\$ 39,865,512.13	19,756,058.08
Thunder Bay system.....	515,055.03	515,055.03	257,527.52
Sub-total.....	40,380,567.16	40,380,567.16	20,013,585.60
Northern Ontario Properties.....	876,632.36	832,003.33	412,901.78
Totals.....	41,257,199.52	41,212,570.49	20,426,487.38

\*Grants not made by Province in respect of a summer resort, street lighting systems, service buildings, amounts paid for business already established and one transformer station.

## NOTE:

The Grants paid over by the Province to the Commission up to October 31, 1944, on account of authorized grants to rural power districts—amount to..... \$20,460,108.10

The Grants payable by the Province—as above set out—in respect of rural power districts as at October 31, 1944, amount in the aggregate to..... 20,426,487.38

A balance of..... \$33,620.72

Which balance represents:

Grant funds in the hands of the Commission at October 31, 1944, not allocated, but to apply against the construction of authorized rural power districts and extension to existing districts

\$33,620.72

## THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

## Account with

The Provincial Treasurer of the Province of Ontario

As at October 31, 1944

## ADVANCES FROM THE PROVINCE OF ONTARIO

	Total	Northern Ontario Properties operated for the Province of Ontario	Southern Ontario and Thunder Bay systems operated on a "cost basis"
	\$ c.	\$ c.	\$ c.
<b>ADVANCES FOR CAPITAL EXPENDITURES:</b>			
Cash advances made by the Province to the Commission for capital expenditures purposes during the years 1909 to 1934, inclusive . . . . .	207,250,258.34	8,331,113.46	198,919,144.88
Cash returned by the Commission to the Province on April 30, 1935, to cover the difference between advances made by the Province to the Commission during the year ended October 31, 1934, and the capital expenditures made out of such advances by the Commission in that year . . . . .	247,507.98	74,001.99	173,505.99
Total advances for capital expenditures . . . . .	207,002,750.36	8,257,111.47	198,745,638.89
<b>REPAYMENT OF ADVANCES—1926 to 1933:</b>			
Cash repayments made by the Commission annually to October 31, 1933, in accordance with the 1926 debt retirement plan . . . . .	17,008,616.73	3,061.39	17,005,555.34
Balance of advances at October 31, 1934 (before deducting \$2,412,398.33 on deposit with the Province at that date for debt retirement) . . . . .	189,994,133.63	8,254,050.08	181,740,083.55
<b>REPAYMENT OF ADVANCES—1934 to 1944:</b>			
Cash repayments made by the Commission under a new retirement plan, equal to the maturities in the period November 1, 1934 to October 31, 1944, of Province of Ontario bonds allocated as issued for the Commission's purposes—			
Total to October 31, 1943 . . . . .	83,179,644.51		
During the year ended October 31, 1944 . . . . .	10,443,573.87		
	93,623,218.38	2,615,875.36	91,007,343.02
Balance of advances at October 31, 1944 . . . . .	96,370,915.25	5,638,174.72	90,732,740.53
<b>Payable in the following currencies:—</b>			
Canadian . . . . .	18,323,686.61	633,379.20	17,690,307.41
Sterling . . . . .	71,202.66	768.80	70,433.86
Canadian or New York . . . . .	8,718,026.01	4,799.73	8,713,226.28
Canadian, New York or Sterling . . . . .	69,257,999.97	4,999,226.99	64,258,772.98
	96,370,915.25	5,638,174.72	90,732,740.53

**THE HYDRO-ELECTRIC POWER  
Funded Debt Issued or Assumed**

Description	Application of proceeds	Date of issue
SOUTHERN ONTARIO AND THUNDER BAY SYSTEMS:		
1½% H-E.P.C. debentures.....	Refunding Province of Ontario advances	Sept. 1, 1944
2½% H-E.P.C. serial debentures.....	Refunding H-E.P.C. 1941 debentures and financing plant extensions.....	Feb. 15, 1941
2½% and 3% H-E.P.C. serial debentures.....	Refunding H-E.P.C. 1941 and 1942 debentures.....	May 1, 1942
5% Ontario Transmission Company bonds.....	Ontario Transmission Company.....	May 1, 1905
2½% H-E.P.C. debentures.....	Refunding Prov. of Ont. advances, etc...	June 15, 1936
2½% and 3% H-E.P.C. serial debentures.....	Refunding Prov. of Ont. advances.....	Aug. 1, 1942
2%, 2½% and 3% H-E.P.C' debentures.....	Refunding in part H-E.P.C. 1943 debentures and Province of Ontario advances.....	Feb. 1, 1943
2½% and 3% " " .....	Refunding in part Ontario Power Company bonds.....	Jan. 1, 1943
3% " " .....	Financing plant extensions.....	Aug. 1, 1938
2¼% and 2¾% " " .....	Refunding Province of Ontario advances	Sept. 1, 1943
3¼% " " .....	Refunding H-E.P.C. 1938 debentures ..	Feb. 1, 1938
4% " " .....	Ontario Power Company.....	Aug. 1, 1917
4% " " .....	Essex system.....	June 1, 1918
4% " " .....	Thorold system.....	Dec. 1, 1918
4¾% " " .....	Dominion Power and Transmission Co...	Jan. 1, 1930
NORTHERN ONTARIO PROPERTIES:		
2½% H-E.P.C. serial debentures	Refunding H-E.P.C. 1941 debentures...	Feb. 15, 1941
2½% and 3% " " "	Refunding H-E.P.C. 1942 debentures...	May 1, 1942
2½% and 3% " " "	Refunding Province of Ontario advances	Aug. 1, 1942
3½% " " "	Refunding H-E.P.C. 1937 debentures and financing plant extensions.....	April 1, 1937
3% " " "	Financing plant extensions.....	Aug. 1, 1938
FUNDED DEBT RELATING TO ALL PROPERTIES VESTED IN OR OPERATED BY THE COMMISSION (at par of exchange) .....		

## COMMISSION OF ONTARIO

as at October 31, 1944

Date of maturity	Matured and paid during year	Principal outstanding October 31, 1944	Interest for the year 1943-1944	Where payable
	\$ c.	\$ c.	\$ c.	
Sept. 1, 1945-1947	.....	5,000,000.00	12,500.00	N.Y.
Feb. 15, 1945-1949	1,500,000.00	7,500,000.00	198,437.50	Canada
May 1, 1945-1952	250,000.00	2,000,000.00	56,875.00	Canada
May 1, 1945	15,000.00	1,035,000.00	52,025.00	N.Y.
June 15, 1944	10,000,000.00	.....	156,250.00	Canada
Aug. 1, 1945-1947	885,400.00	2,656,200.00	91,860.25	N.Y.
Feb. 1, 1946-1951	.....	10,000,000.00	270,000.00	Canada
Jan. 1, 1948-1953	.....	7,000,000.00	200,000.00	N.Y.
Aug. 1, 1948	.....	7,740,000.00	232,200.00	Canada
Sept. 1, 1948-1953	.....	7,500,000.00	183,750.00	N.Y.
Feb. 1, 1953	.....	9,000,000.00	292,500.00	Canada
Aug. 1, 1957	.....	8,000,000.00	320,000.00	C., N.Y., L.
June 1, 1958	.....	200,000.00	8,000.00	Canada
Dec. 1, 1958	.....	100,000.00	4,000.00	Canada
Jan. 1, 1970	.....	11,864,000.00	563,540.00	Canada
	12,650,400.00	79,595,200.00	2,641,937.75	
Feb. 15, 1945-1949	375,000.00	1,875,000.00	49,609.37	Canada
May 1, 1945-1952	750,000.00	6,000,000.00	170,625.00	Canada
Aug. 1, 1945-1947	14,600.00	43,800.00	1,514.75	N.Y.
April 1, 1947	.....	8,000,000.00	280,000.00	Canada
Aug. 1, 1948	.....	4,760,000.00	142,800.00	Canada
	1,139,600.00	20,678,800.00	644,549.12	
.....	13,790,000.00	100,274,000.00	3,286,486.87	
Payable in the following currencies:				
Canadian.....	69,039,000.00	\$ c.	\$ c.	
Canadian, New York or Sterling.....	8,000,000.00		320,000.00	
New York.....	23,235,000.00		541,650.00	
	100,274,000.00		3,286,486.87	

**THE HYDRO-ELECTRIC POWER  
Power Accounts Receivable**

System or property	Interim power bills	Accumulated amount standing as a charge or credit on October 31, 1944		Net total for wholesale consumers
		Charge	Credit	
SOUTHERN ONTARIO SYSTEM:	\$ 2,850,327.27		\$ 3,043,169.00	\$ (192,841.73)
Municipalities.....	2,850,327.27		3,043,169.00	(192,841.73)
Companies.....	1,243,227.87			1,243,227.87
Local and rural.....				
	4,093,555.14		3,043,169.00	1,050,386.14
THUNDER BAY SYSTEM:	71,300.27		88,820.72	(17,520.45)
Municipalities.....	71,300.27		88,820.72	(17,520.45)
Companies.....	92,729.45			92,729.45
Local and rural.....				
	164,029.72		88,820.72	75,209.00
Grand totals.....	4,257,584.86		3,131,989.72	1,125,595.14

**THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO  
Renewals Reserves—October 31, 1944**

	Southern Ontario system	Thunder Bay system	Service and administrative buildings and equipment	Totals for power undertakings operated on a "cost basis"
Balances at November 1, 1943	\$ 52,567,795.05	\$ 3,893,323.06	\$ 735,973.24	\$ 57,197,091.35
Less amount payable to Welland, in respect of rural line transferred.....	12,665.33			12,665.33
Provision in the year—direct.....	52,555,129.72			57,184,426.02
—indirect.....	2,573,497.34	165,103.09	24,477.61	2,738,600.43
Interest at 4% on reserve balances.....	2,101,648.40	155,732.92	22,402.01	2,279,783.33
Sub-total.....	57,230,275.46	4,214,159.07	782,852.86	62,227,287.39
Less:				
Expenditures in the year for renewals.....	139,098.00	15.05	8,051.63	147,164.68
Amount withdrawn in respect of assets removed from service, etc.	897,653.56	3,778.80		901,432.36
Adjustment: Sales and transfer of equipment	145,263.56	1,083.45		146,347.01
Balances at October 31, 1944..	56,048,260.34	4,209,281.77	774,801.23	61,032,343.34
Account balances:				
Power plants, transmission lines and transformer stations	48,479,242.09	4,162,231.73		52,641,473.82
Rural power districts.....	7,567,977.88	47,050.04		7,615,027.92
Rural lines.....	1,040.37			1,040.37
Administrative office buildings			295,926.48	295,926.48
Service buildings and equipment.....			478,874.75	478,874.75
	56,048,260.34	4,209,281.77	774,801.23	61,032,343.34

## COMMISSION OF ONTARIO

—October 31, 1944

Retail power consumers—local and rural districts	Net total of power accounts receivable	Balance sheet figures		Debit balances three months or more overdue
		Debit balances	Credit balances	
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
.....	(192,841.73)	332,520.75	525,362.48	.....
.....	1,243,227.87	1,243,227.87	.....	81.17
1,177,326.37	1,177,326.37	1,177,326.37	.....	28,612.29
1,177,326.37	2,227,712.51	2,753,074.99	525,362.48	28,693.46
.....	(17,520.45)	5.30	17,525.75	.....
.....	92,729.45	98,760.64	6,031.19	.....
13,450.14	13,450.14	13,450.14	.....	2,147.13
13,450.14	88,659.14	112,216.08	23,556.94	2,147.13
1,190,776.51	2,316,371.65	2,865,291.07	548,919.42	30,840.59

## THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

Contingencies and Obsolescence Reserves—October 31, 1944

	Southern Ontario system	Thunder Bay system	Totals for power undertakings operated on a "cost basis"
Balances at November 1, 1943 .....	\$ c. 21,185,289.25	\$ c. 2,816,241.48	\$ c. 24,001,530.73
Transferred during the year .....	179,278.64	1,083.45	180,362.09
Provision in the year as per cost statement .....	9,430,542.93	548,381.71	9,978,924.64
Interest at 4% on reserves' balances .....	847,411.57	107,018.81	954,430.38
Sub-total .....	31,642,522.39	3,472,725.45	35,115,247.84
Less:			
Contingencies met with during the year .....	673,358.94	102,893.06	776,252.00
Terminal building, Hamilton .....	24,574.06	.....	24,574.06
Write-off of certain assets no longer in service, etc .....	1,826,172.99	5,331.82	1,831,504.81
Balances at October 31, 1944 .....	29,118,416.40	3,364,500.57	32,482,916.97
Account balances:			
Power plants, transmission lines, transformer stations and rural power districts .....	29,117,904.81	3,364,500.57	32,482,405.38
Rural lines .....	511.59	.....	511.59
	29,118,416.40	3,364,500.57	32,482,916.97

## THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

Stabilization of Rates Reserves—October 31, 1944

	Southern Ontario system	Thunder Bay		Totals for power undertakings operated on a "cost basis"
		System	Mining area	
Balances at November 1, 1943	\$ c.	\$ c.	\$ c.	\$ c.
Appropriations in the year as per cost statements.....	15,083,986.64	422,518.78	356,313.15	15,862,818.57
Interest at 4% on reserves balances.....	603,359.47	16,900.75	14,252.52	634,512.74
Adjustments during the year..	118.70	.....	.....	118.70
Balances at October 31, 1944..	15,687,464.81	439,419.53	404,359.57	16,531,243.91
Account balances:				
Systems.....	15,687,464.81	439,419.53	404,359.57	16,531,243.91

## THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

Sinking Fund Reserves—October 31, 1944

	Southern Ontario system	Thunder Bay system	Service and administrative buildings and equipment	Totals for power undertakings operated on a "cost basis"
Balances at November 1, 1943	\$ c.	\$ c.	\$ c.	\$ c.
Amount withdrawn in respect of rural line transferred to Welland.....	69,479,214.72	3,685,762.69	721,870.70	73,886,848.11
19,617.60	.....	.....	.....	19,617.60
Provision in the year	69,459,597.12	.....	.....	73,867,230.51
—direct.....	2,991,625.22	198,242.32	.....	3,189,867.54
—indirect.....	.....	.....	38,995.71	38,995.71
Interest at 4% on reserves balances.....	2,778,383.88	147,430.51	28,874.82	2,954,689.21
Balances at October 31, 1944..	75,229,606.22	4,031,435.52	789,741.23	80,050,782.97
Account balances:				
Systems.....	72,407,606.08	4,011,260.02	.....	76,418,866.10
Rural power districts.....	2,820,867.77	20,175.50	.....	2,841,043.27
Rural lines.....	1,132.37	.....	.....	1,132.37
Administrative office buildings.....	.....	.....	520,983.64	520,983.64
Service buildings and equipment.....	.....	.....	268,757.59	268,757.59
	75,229,606.22	4,031,435.52	789,741.23	80,050,782.97

**THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO**

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**STATEMENTS FOR MUNICIPALITIES****RECEIVING POWER UNDER COST CONTRACTS**

For the year ended October 31, 1944

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**STATEMENTS FOR EACH SYSTEM****Cost of Power****Credit or Charge****Sinking Fund****Rural Operating**

## SOUTHERN ONTARIO

Embracing Niagara, Georgian Bay,

**Statement showing the amount chargeable (upon annual adjustment) to each it by the Commission; the amount received by the Commission or charged to each Municipality in respect of power**

Municipality	Interim rates per horsepower collected by Commission during year		Share of capital cost of system	Average horsepower supplied in year after correction for power factor	Share of operating		
	To Dec. 31, 1943	From Jan. 1, 1944			Cost of power purchased	Operating maintenance and administrative expenses*	Interest
Acton.....	\$ 28.50	\$ 28.50	\$ 341,383.33	1,628.5	\$ 10,856.02	\$ 8,118.05	\$ 14,052.71
Agincourt.....	32.00	29.00	42,768.32	205.8	1,371.92	1,114.57	1,741.98
Ailsa Craig.....	38.00	37.00	36,558.35	136.5	909.95	1,348.00	1,495.65
Alexandria.....	50.00	45.00	77,799.42	211.3	1,408.53	1,519.36	3,193.69
Alliston.....	46.00	40.50	111,293.14	397.3	2,648.51	3,049.51	4,510.97
Alvinston.....	52.00	45.00	33,108.19	106.1	707.29	1,316.39	1,349.36
Amherstburg.....	32.00	32.00	224,147.72	956.2	6,374.29	5,001.03	9,218.36
Ancaster Twp.....	27.50	27.50	77,764.21	398.7	2,657.84	1,875.04	3,199.61
Apple Hill.....	44.00	44.00	13,540.92	47.4	315.98	377.31	554.78
Arkona.....	52.00	45.00	24,453.61	60.1	400.64	343.01	1,007.40
Arnprior.....	28.00	28.00	208,134.37	1,250.1	8,333.51	5,248.81	8,454.76
Arthur.....	60.00	45.00	54,114.57	157.1	1,047.27	1,404.90	2,219.44
Athens.....	45.00	45.00	35,734.83	107.9	719.29	1,013.35	1,461.37
Aurora.....	27.00	27.00	275,763.10	1,365.2	9,100.80	6,736.76	11,370.74
Aylmer.....	30.00	30.00	181,324.69	842.2	5,614.33	5,233.28	7,439.35
Ayr.....	29.50	32.50	52,406.67	218.1	1,453.91	1,369.89	2,170.23
Baden.....	28.50	28.00	115,904.26	571.2	3,807.77	2,916.08	4,759.72
Barrie.....	32.50	30.00	752,983.88	4,110.8	27,403.71	20,089.05	30,591.29
Bath.....	50.00	45.00	15,079.75	43.6	290.65	419.82	600.09
Beachville.....	28.50	28.50	155,845.31	747.6	4,983.71	3,790.86	6,413.92
Beamsville.....	26.00	26.00	81,462.87	449.6	2,997.16	1,958.34	3,326.09
Beaverton.....	39.00	39.00	54,852.89	234.7	1,564.57	2,042.07	2,244.75
Beeton.....	60.00	45.00	50,941.41	141.6	943.94	1,135.75	2,056.90
Belle River.....	32.50	32.50	45,500.30	186.0	1,239.93	1,336.27	1,847.19
Belleville.....	26.00	25.00	1,170,150.57	7,622.4	50,813.00	29,184.70	47,609.34
Blenheim.....	32.50	32.00	117,845.53	529.9	3,532.46	3,858.29	4,840.92
Bloomfield.....	45.00	42.00	33,812.47	119.5	796.62	1,123.53	1,376.55
Blyth.....	42.00	42.00	37,862.97	127.4	849.28	1,373.30	1,558.51
Bolton.....	35.00	32.00	54,736.81	226.3	1,508.58	1,867.71	2,234.04
Bothwell.....	38.00	37.00	31,547.50	125.7	837.95	1,236.52	1,293.85
Bowmanville.....	31.00	29.00	524,298.03	2,791.5	18,608.90	15,208.32	21,334.50
Bradford.....	48.00	42.50	61,751.49	206.4	1,375.92	2,122.68	2,332.54
Brampton.....	26.00	26.00	495,124.97	2,696.7	17,976.94	13,655.68	20,385.19
Brantford.....	23.50	23.50	4,019,089.26	22,432.4	149,540.49	88,971.15	166,124.79
Brantford Twp.....	27.50	27.50	208,368.49	1,160.9	7,738.88	8,569.00	8,601.78
Brechin.....	47.00	45.00	13,904.02	51.9	345.98	546.79	567.61
Bridgeport.....	31.50	30.50	33,542.33	145.2	967.94	835.31	1,374.35
Brigden.....	48.00	44.00	26,676.56	85.9	572.63	800.05	1,088.14
Brighton.....	32.00	30.50	89,924.78	455.0	3,033.15	2,830.61	3,664.05
Brockville.....	26.00	26.00	883,650.41	4,841.5	32,274.76	20,395.51	36,260.39

\*After crediting the amounts, totalling \$9,231.29, required to reduce the costs of power to \$39.00 per horsepower maximum.

## SYSTEM

## S.O.—COST OF POWER

## and Eastern Ontario Divisions

Municipality as the Cost—under Power Commission Act—of Power supplied to from each Municipality, and the amount remaining to be credited supplied to it in the year ended October 31, 1944

costs and fixed charges			Revenue received in excess of cost of power sold to private companies	Amount charged* to each municipality in respect of power supplied to it in the year	Amount received from (or billed against) each municipality by the Commission	Amount remaining to be credited or charged to each municipality Credited (Charged)
Provision for renewals	Provision for contingencies and obsolescence	Provision for sinking fund	Credit			
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
3,083.63	2,006.55	3,613.77	1,695.60	40,035.13	46,411.79	6,376.66
370.08	244.30	452.75	214.28	5,081.32	6,070.24	988.92
377.55	192.66	386.73	142.12	4,568.42	5,073.24	504.82
1,179.55	340.26	819.27	220.01	8,240.70	9,674.69	1,433.99
1,530.89	545.82	1,173.36	413.67	13,045.39	16,468.37	3,422.98
360.44	164.87	350.02	110.47	4,137.90	4,899.21	761.31
2,102.35	1,279.25	2,374.14	995.60	25,353.82	30,599.46	5,245.64
672.99	467.03	823.99	415.13	9,281.37	10,965.39	1,684.02
186.37	69.48	142.59	49.35	1,597.16	2,084.50	487.34
289.66	107.49	258.28	62.58	2,343.90	2,769.07	425.17
1,935.55	1,339.99	2,191.88	1,301.61	26,202.89	35,002.09	8,799.20
805.66	243.77	569.43	163.57	6,126.90	7,467.52	1,340.62
521.23	160.71	375.66	112.35	4,139.26	4,857.03	717.77
2,330.44	1,605.58	2,919.70	1,421.45	32,642.57	36,860.45	4,217.88
1,661.87	1,055.73	1,917.45	876.90	22,045.11	25,265.75	3,220.64
513.70	299.05	554.61	227.09	6,134.30	6,990.13	855.83
1,017.52	691.02	1,227.22	594.74	13,824.59	16,039.21	2,214.62
7,868.93	4,418.98	7,943.83	4,280.18	94,035.61	125,002.85	30,967.24
215.42	65.50	154.32	45.40	1,700.40	1,997.98	297.58
1,403.56	938.51	1,650.84	778.40	18,403.00	21,307.11	2,904.11
682.74	497.97	857.39	468.13	9,851.56	11,688.49	1,836.93
686.51	297.59	578.45	244.37	7,169.57	9,154.94	1,985.37
771.14	225.17	536.93	147.43	5,522.40	6,797.02	1,274.62
428.24	251.39	475.35	193.66	5,384.71	6,045.55	660.84
9,813.50	7,621.46	12,317.94	7,936.47	149,423.47	191,818.79	42,395.32
1,086.37	679.48	1,247.86	551.73	14,693.65	17,005.42	2,311.77
463.36	166.09	356.07	124.42	4,157.80	5,071.06	913.26
404.98	190.71	400.23	132.65	4,644.36	5,349.40	705.04
521.68	289.70	579.01	235.62	6,765.10	7,336.41	571.31
311.60	174.62	333.84	130.88	4,057.50	4,671.81	614.31
5,512.71	3,155.48	5,521.35	2,906.52	66,434.74	81,904.21	15,469.47
789.16	282.61	606.33	214.90	7,294.34	8,915.96	1,621.62
4,088.63	2,993.91	5,245.10	2,807.82	61,537.63	70,113.31	8,575.68
32,280.88	24,973.21	42,615.11	23,356.69	481,148.94	527,160.99	46,012.05
1,676.22	1,294.28	2,209.34	1,208.73	28,880.77	31,923.84	3,043.07
187.30	70.76	146.60	54.04	1,811.00	2,350.88	539.88
319.85	187.63	354.92	151.18	3,888.82	4,455.77	566.95
289.89	134.57	282.04	89.44	3,077.88	3,833.66	755.78
987.88	547.94	946.99	473.75	11,536.87	14,006.05	2,469.18
9,046.79	5,304.33	9,305.30	5,040.99	107,546.09	125,877.90	18,331.81

## SOUTHERN ONTARIO

Embracing Niagara, Georgian Bay,

Statement showing the amount chargeable (upon annual adjustment) to each it by the Commission; the amount received by the Commission or charged to each Municipality in respect of power

Municipality	Interim rates per horsepower collected by Commission during year		Share of capital cost of system	Average horse-power supplied in year after correction for power factor	Share of operating		
	To Dec. 31, 1943	From Jan. 1, 1944			Cost of power purchased	Operating maintenance and administrative expenses	Interest
Brussels.....	\$ 42.00	\$ 41.50	\$ 41,265.35	143.3	\$ 955.28	\$ 1,538.57	\$ 1,694.24
Burford.....	30.50	29.50	45,261.95	220.7	1,471.25	1,297.33	1,856.74
Burgessville.....	48.00	41.00	13,889.08	47.4	315.98	535.30	565.15
Caledonia.....	27.50	27.50	70,917.87	342.6	2,283.86	1,947.28	2,923.21
Campbellville.....	50.00	45.00	13,445.77	41.4	275.98	478.36	548.04
Cannington.....	40.00	37.50	44,779.76	198.2	1,321.26	1,737.90	1,825.10
Cardinal.....	30.00	29.00	60,448.02	318.2	2,121.21	1,597.91	2,463.39
Carleton Place.....	28.00	28.00	353,471.23	1,838.4	12,255.28	7,231.36	14,460.65
Cayuga.....	39.00	39.00	38,624.11	121.5	809.95	1,312.44	1,592.07
Chatham.....	26.50	26.50	1,331,942.87	6,892.9	45,949.95	33,311.16	54,945.74
Chatsworth.....	40.00	40.00	21,937.30	82.4	549.30	669.60	898.97
Chesley.....	35.50	34.00	124,843.28	567.6	3,783.78	3,283.82	5,088.53
Chesterville.....	33.00	33.00	63,374.40	291.5	1,943.22	1,840.90	2,606.71
Chippawa.....	21.50	21.50	49,303.07	337.6	2,250.53	1,139.93	2,022.10
Clifford.....	46.00	44.50	35,000.99	106.1	707.29	1,178.68	1,436.60
Clinton.....	32.50	32.00	155,996.02	675.4	4,502.40	4,253.71	6,401.27
Cobden.....	52.00	45.00	36,347.08	115.6	770.62	1,296.83	1,485.02
Cobourg.....	31.00	29.50	412,088.26	2,223.0	14,819.12	12,278.75	16,761.08
Colborne.....	33.50	33.00	49,793.17	227.5	1,516.58	1,345.77	2,035.68
Coldwater.....	35.00	35.00	37,474.60	169.1	1,127.27	1,235.74	1,540.43
Collingwood.....	36.00	31.00	532,426.29	2,762.9	18,418.24	14,171.19	21,479.84
Comber.....	40.00	39.00	37,677.17	138.1	920.61	1,485.32	1,546.60
Cookstown.....	45.00	39.00	23,104.04	89.2	594.63	649.54	931.50
Cottam.....	38.00	38.00	20,403.96	74.3	495.30	653.77	840.22
Courtright.....	52.00	44.50	16,247.92	47.3	315.31	485.61	661.33
Creemore.....	45.00	41.50	37,441.94	144.6	963.94	1,467.85	1,523.62
Dashwood.....	38.00	35.50	29,900.60	111.6	743.96	912.51	1,224.17
Delaware.....	31.00	30.50	14,558.05	70.7	471.31	485.27	597.93
Delhi.....	31.00	31.00	114,737.47	502.0	3,346.47	2,982.34	4,729.97
Deseronto.....	43.00	38.00	56,361.86	238.1	1,587.24	1,600.22	2,285.20
Dorchester.....	33.00	33.00	23,116.19	99.8	665.29	711.30	955.87
Drayton.....	48.00	45.00	50,163.35	134.1	893.95	1,069.53	2,062.65
Dresden.....	35.00	33.50	106,456.27	451.3	3,008.49	2,985.30	4,359.80
Drumbo.....	35.00	33.00	23,023.23	102.3	681.96	736.36	942.71
Dublin.....	44.00	43.50	15,979.65	52.9	352.65	682.44	656.02
Dundalk.....	37.00	34.00	47,210.14	225.8	1,505.24	1,774.03	1,913.33
Dundas.....	22.50	22.50	532,979.77	3,073.6	20,489.46	11,507.32	22,048.59
Dunville.....	25.00	25.00	273,104.31	1,372.2	9,147.46	6,536.32	11,186.61
Durham.....	39.00	35.50	88,121.30	407.0	2,713.17	3,079.50	3,578.47
Dutton.....	32.50	32.50	56,870.06	251.5	1,676.57	2,026.60	2,337.14

**SYSTEM****S.O.—COST OF POWER****and Eastern Ontario Divisions**

**Municipality as the Cost—under Power Commission Act—of Power supplied to from each Municipality, and the amount remaining to be credited supplied to it in the year ended October 31, 1944**

costs and fixed charges			Revenue received in excess of cost of power sold to private companies	Amount charged to each municipality in respect of power supplied to it in the year	Amount received from (or billed against) each municipality by the Commission	Amount remaining to be credited or charged to each municipality Credited (Charged)
Provision for renewals	Provision for contingencies and obsolescence	Provision for sinking fund	Credit			
			\$ c.	\$ c.	\$ c.	\$ c.
435.67	211.21	436.24	149.20	5,122.01	5,958.45	836.44
403.40	269.92	479.50	229.79	5,548.35	6,541.03	992.68
149.11	69.03	146.88	49.35	1,732.10	1,993.21	261.11
639.73	424.24	751.18	356.72	8,612.78	9,422.65	809.87
149.60	64.25	141.48	43.11	1,614.60	1,898.43	283.83
548.90	244.89	472.25	206.37	5,943.93	7,498.99	1,555.06
642.01	368.52	636.54	331.31	7,498.27	9,274.78	1,776.51
3,794.18	2,082.42	3,722.37	1,914.15	41,632.11	51,474.00	9,841.89
428.97	189.67	408.28	126.51	4,614.87	4,739.47	124.60
11,116.73	8,092.14	14,115.65	7,176.91	160,354.46	182,662.47	22,308.01
294.55	123.19	231.27	85.80	2,681.08	3,295.65	614.57
1,504.00	702.63	1,316.66	590.99	15,088.43	19,438.97	4,350.54
755.66	357.49	671.33	303.51	7,871.80	9,619.82	1,748.02
340.83	322.95	519.27	351.51	6,244.10	7,258.76	1,014.66
386.60	169.21	369.99	110.47	4,137.90	4,747.36	609.46
1,475.98	867.13	1,650.76	703.23	18,448.02	21,664.20	3,216.18
521.00	172.54	382.75	120.36	4,508.40	5,318.44	810.04
4,281.34	2,528.55	4,339.68	2,314.60	52,693.92	66,134.55	13,440.63
590.56	297.67	524.36	236.87	6,073.75	7,527.18	1,453.43
453.70	214.29	395.22	176.07	4,790.58	5,916.76	1,126.18
5,815.56	3,066.75	5,616.47	2,876.74	65,691.31	87,980.53	22,289.22
391.25	194.83	398.55	143.79	4,793.37	5,412.73	619.36
306.06	122.23	243.61	92.88	2,754.69	3,563.12	808.43
207.82	106.06	215.69	77.36	2,441.50	2,824.03	382.53
183.01	76.98	171.71	49.25	1,844.70	2,163.50	318.80
495.91	190.28	394.79	150.56	4,885.83	6,078.68	1,192.85
308.84	156.27	316.30	116.20	3,545.85	4,003.70	457.85
129.89	86.73	154.21	73.61	1,851.73	2,160.64	308.91
1,089.67	645.41	1,214.77	522.68	13,485.95	15,563.27	2,077.32
702.75	322.85	593.37	247.91	6,843.72	9,237.95	2,394.23
222.88	129.25	245.44	103.91	2,826.12	3,293.96	467.84
577.26	236.27	529.87	139.63	5,229.90	6,101.76	871.86
1,016.59	595.70	1,126.90	469.90	12,622.88	15,234.85	2,611.97
217.56	129.99	243.73	106.52	2,845.79	3,406.27	560.48
172.03	86.14	168.90	55.08	2,063.10	2,306.48	243.38
549.23	269.27	497.94	235.10	6,273.94	7,794.76	1,520.82
4,190.49	3,339.81	5,651.85	3,200.24	64,027.28	69,155.20	5,127.92
2,442.10	1,536.26	2,868.57	1,428.74	32,288.58	34,305.59	2,017.01
1,050.49	483.59	929.39	423.77	11,410.84	14,659.90	3,249.06
537.83	325.81	601.77	261.86	7,243.86	8,172.41	928.55

## SOUTHERN ONTARIO

Embracing Niagara, Georgian Bay,

**Statement showing the amount chargeable (upon annual adjustment) to each  
it by the Commission; the amount received by the Commission  
or charged to each Municipality in respect of power**

Municipality	Interim rates per horsepower collected by Commission during year		Share of capital cost of system	Average horsepower supplied in year after correction for power factor	Share of operating		
	To Dec. 31, 1943	From Jan. 1, 1944			Cost of power purchased	Operating maintenance and administrative expenses	Interest
East York Twp.	\$ 27.50	\$ 26.00	1,554,151.99	8,766.2	\$ 58,437.88	\$ 35,036.43	\$ 63,622.48
Elmira	29.00	29.00	267,882.06	1,297.4	8,648.82	5,973.43	11,041.48
Elmvale	39.50	36.00	33,060.40	158.2	1,054.60	1,538.73	1,338.18
Elmwood	42.50	42.50	19,110.31	64.5	429.97	684.67	789.46
Elora	31.50	31.00	105,373.24	454.4	3,029.15	2,650.89	4,323.10
Embro	37.00	33.00	39,630.12	164.9	1,099.27	1,055.75	1,619.23
Erieau	48.00	42.50	40,865.56	135.9	905.95	1,437.69	1,668.48
Erie Beach	52.00	45.00	6,087.48	17.5	116.66	172.55	250.44
Essex	31.50	30.50	133,677.89	578.5	3,856.44	2,969.60	5,469.54
Etobicoke Twp.	23.50	24.50	1,477,267.76	8,061.9	53,742.83	35,698.27	61,173.16
Exeter	32.00	32.00	171,692.22	740.7	4,937.71	4,889.55	7,059.99
Fergus	30.50	29.50	285,677.08	1,301.7	8,677.49	7,032.68	11,702.28
Finch	41.00	41.00	26,416.32	97.2	647.96	922.74	1,086.85
Flesherton	45.00	43.00	15,362.56	62.9	419.31	741.63	626.73
Fonthill	29.50	29.50	36,860.11	181.5	1,209.93	986.30	1,505.63
Forest	38.00	36.50	146,189.05	564.8	3,765.11	4,692.94	5,997.00
Forest Hill	24.50	24.50	1,173,273.88	6,757.4	45,046.67	25,849.88	48,313.77
Galt	24.00	24.00	2,069,664.36	11,420.3	76,130.83	49,606.26	84,976.35
Georgetown	30.50	30.50	407,632.53	1,818.3	12,121.28	10,159.01	16,764.19
Glencoe	46.00	44.50	63,310.42	192.6	1,283.92	2,153.44	2,598.39
Goderich	35.00	34.00	429,878.16	1,691.0	11,272.67	11,709.90	17,637.15
Grand Valley	51.00	45.00	42,051.55	146.8	978.61	1,721.43	1,710.66
Granton	40.00	39.50	19,038.69	71.2	474.64	790.24	781.31
Gravenhurst	25.00	25.00	212,210.14	1,168.9	7,792.21	5,507.07	8,754.47
Grimsby	26.00	26.00	171,694.79	857.2	5,714.33	4,290.48	7,057.17
Guelph	23.50	23.50	2,111,125.25	11,760.1	78,396.03	51,617.99	87,272.91
Hagersville	28.50	28.50	206,511.01	905.5	6,036.31	5,688.62	8,513.89
Hamilton	22.00	22.00	26,362,561.79	157,207.1	1,047,985.38	556,833.48	1,090,098.51
Hanover	32.00	30.00	252,325.72	1,355.8	9,038.13	6,461.14	10,267.43
Harriston	37.50	36.00	124,656.83	466.8	3,111.82	3,966.96	5,113.35
Harrow	33.50	33.50	140,128.39	563.4	3,755.78	3,468.36	5,752.78
Hastings	41.00	40.00	28,757.56	116.1	773.95	1,052.61	1,173.06
Havelock	45.00	45.00	45,244.17	138.5	923.28	1,353.47	1,820.34
Hensall	41.00	39.00	59,007.06	195.5	1,303.26	1,764.99	2,418.25
Hespeler	24.50	24.50	510,120.52	2,823.1	18,819.55	12,901.52	20,924.83
Highgate	40.00	37.00	26,620.04	99.4	662.63	929.80	1,089.31
Holstein	62.00	45.00	7,983.33	19.5	129.99	80.39	328.16
Humberstone	24.50	24.50	111,311.79	588.0	3,919.77	2,542.01	4,566.08
Huntsville	28.00	28.00	264,649.62	1,202.4	8,015.53	7,086.96	10,941.58
Ingersoll	25.50	25.50	652,290.09	3,426.7	22,843.32	15,536.99	26,915.73

## SYSTEM

## S.O.—COST OF POWER

## and Eastern Ontario Divisions

**Municipality as the Cost—under Power Commission Act—of Power supplied to from each Municipality, and the amount remaining to be credited supplied to it in the year ended October 31, 1944**

costs and fixed charges			Revenue received in excess of cost of power sold to private companies	Amount charged to each municipality in respect of power supplied to it in the year	Amount received from (or billed against) each municipality by the Commission	Amount remaining to be credited or charged to each municipality
Provision for renewals	Provision for contingencies and obsolescence	Provision for sinking fund				
\$ 11,749.84	\$ 9,427.11	\$ 16,467.42	\$ 9,127.40	\$ 185,613.76	\$ 230,377.93	\$ 44,764.17
2,380.50	1,578.20	2,836.13	1,350.86	31,107.70	37,624.82	6,517.12
384.48	191.87	348.70	164.72	4,691.84	5,793.10	1,101.26
269.38	106.55	201.47	67.16	2,414.34	2,742.67	328.33
1,012.17	599.42	1,114.88	473.12	12,256.49	14,122.96	1,866.47
388.41	222.26	419.47	171.69	4,632.70	5,551.20	918.50
438.25	200.86	432.09	141.50	4,941.82	5,846.56	904.74
68.81	27.93	64.33	18.22	682.50	803.51	121.01
1,240.31	762.83	1,414.16	602.34	15,110.54	17,744.38	2,633.84
12,156.83	9,152.75	15,649.62	8,394.08	179,179.38	196,084.51	16,905.13
1,648.43	964.27	1,817.53	771.22	20,546.26	23,701.05	3,154.79
2,656.83	1,639.32	3,023.37	1,355.33	33,376.64	38,603.05	5,226.41
357.66	132.42	279.50	101.20	3,325.93	3,985.56	659.63
197.23	80.04	162.00	65.49	2,161.45	2,724.20	562.75
335.16	220.10	387.92	188.98	4,456.06	5,354.51	898.45
1,467.85	801.08	1,546.77	588.07	17,682.68	20,756.23	3,073.55
8,696.56	7,195.01	12,459.15	7,035.83	140,525.21	165,555.25	25,030.04
16,603.88	12,743.33	21,827.62	11,890.86	249,997.41	274,087.00	24,089.59
3,839.95	2,306.83	4,313.59	1,893.22	47,611.63	55,459.45	7,847.82
702.03	304.98	669.18	200.54	7,511.40	8,619.68	1,108.28
4,285.07	2,265.85	4,546.95	1,760.68	49,956.91	57,766.44	7,809.53
582.54	206.51	442.44	152.85	5,489.34	6,750.33	1,260.99
196.48	100.33	201.40	74.13	2,470.27	2,817.31	347.04
2,199.52	1,261.12	2,238.81	1,217.06	26,536.14	29,221.64	2,685.50
1,547.37	1,004.06	1,807.15	892.52	20,528.04	22,285.88	1,757.84
16,955.90	13,179.34	22,367.37	12,244.65	257,544.89	276,361.92	18,817.03
1,976.92	1,182.81	2,186.22	942.81	24,641.96	25,806.28	1,164.32
200,867.56	167,559.40	279,588.43	163,684.58	3,179,248.18	3,458,556.34	279,308.16
2,674.90	1,515.61	2,661.91	1,411.66	31,207.46	41,121.65	9,914.19
1,260.85	671.14	1,318.94	486.03	14,957.03	16,914.00	1,956.97
1,357.02	781.25	1,481.91	586.61	16,010.49	18,873.06	2,862.57
368.12	157.93	302.74	120.88	3,707.53	4,662.98	955.45
639.39	213.44	466.57	144.21	5,272.28	6,234.41	962.13
640.44	288.74	623.88	203.56	6,836.00	7,697.99	861.99
4,080.72	3,146.19	5,379.11	2,939.42	62,312.50	69,164.73	6,852.23
271.47	138.97	281.59	103.50	3,270.27	3,735.32	465.05
125.56	32.57	84.13	20.30	760.50	930.09	169.59
959.79	693.75	1,171.57	612.23	13,240.74	14,406.20	1,165.46
3,189.71	1,418.75	2,791.12	1,251.94	32,191.71	33,666.01	1,474.30
5,502.72	3,964.60	6,913.49	3,567.90	78,108.95	87,381.50	9,272.55

## SOUTHERN ONTARIO

Embracing Niagara, Georgian Bay,

Statement showing the amount chargeable (upon annual adjustment) to each  
it by the Commission; the amount received by the Commission  
or charged to each Municipality in respect of power

Municipality	Interim rates per horsepower collected by Commission during year		Share of capital cost of system	Average horsepower supplied in year after correction for power factor	Share of operating		
	To Dec. 31, 1943	From Jan. 1, 1944			Cost of power purchased	Operating maintenance and administrative expenses	Interest
Iroquois.....	\$ 27.50	\$ 27.50	\$ 42,510.62	241.7	\$ 1,611.24	\$ 1,080.87	\$ 1,738.72
Jarvis.....	35.50	35.50	52,623.72	186.0	1,239.93	1,485.92	2,163.97
Kemptville.....	35.00	35.00	87,558.22	354.0	2,359.86	2,108.20	3,581.87
Kincardine.....	42.00	38.50	186,598.49	731.3	4,875.05	4,893.93	7,580.45
Kingston.....	28.00	26.00	2,366,267.75	14,726.1	98,168.20	56,017.94	95,796.48
Kingsville.....	32.50	32.50	148,344.96	599.5	3,996.43	3,426.11	6,093.07
Kirkfield.....	55.00	45.00	9,631.54	25.5	169.99	165.68	394.11
Kitchener.....	23.50	23.50	4,861,892.28	27,213.6	181,413.28	107,587.52	200,679.69
Lakefield.....	33.00	28.00	77,060.58	424.3	2,828.50	2,029.86	3,098.22
Lambeth.....	34.00	33.00	30,305.22	124.3	828.62	873.34	1,242.60
Lanark.....	40.00	40.00	24,369.37	83.8	558.63	727.38	1,001.19
Lancaster.....	52.00	45.00	17,221.24	45.7	304.65	298.94	707.32
La Salle.....	32.50	31.50	59,735.97	262.3	1,748.56	1,544.76	2,452.05
Leamington.....	32.50	32.00	435,568.65	1,770.5	11,802.64	10,232.73	17,897.86
Lindsay.....	33.00	30.00	713,854.20	3,641.3	24,273.90	23,188.85	28,864.05
Listowel.....	30.50	30.50	341,870.69	1,494.9	9,965.41	9,465.93	14,078.33
London.....	23.00	23.00	7,130,301.12	39,849.7	265,648.97	163,611.14	295,151.07
London Twp.....	28.50	28.50	113,621.43	547.5	3,649.78	2,861.51	4,674.12
Long Branch.....	25.50	25.50	235,878.39	1,275.3	8,501.50	5,815.74	9,712.47
Lucan.....	31.50	31.50	42,219.71	190.2	1,267.93	1,294.44	1,735.18
Lucknow.....	48.00	43.00	115,513.55	411.4	2,742.50	3,121.34	4,701.48
Lynden.....	32.00	32.00	25,785.80	115.7	771.29	766.43	1,060.02
Madoc.....	45.00	42.50	49,396.07	199.3	1,328.59	2,319.29	2,014.50
Markdale.....	37.00	34.50	36,854.01	179.5	1,196.60	1,482.21	1,495.81
Markham.....	31.50	29.50	79,705.70	368.2	2,454.52	2,148.61	3,262.87
Marmora.....	38.00	36.00	31,668.17	131.6	877.28	1,055.20	1,291.65
Martintown.....	38.00	38.00	9,107.88	39.0	259.98	307.06	373.06
Maxville.....	47.00	45.00	35,749.66	105.5	703.29	818.27	1,467.69
Meaford.....	39.00	35.50	163,088.31	720.8	4,805.05	4,853.92	6,628.91
Merlin.....	38.00	35.50	21,380.05	82.0	546.63	646.55	873.99
Merritton.....	20.00	20.50	1,790,476.59	11,735.7	78,233.38	37,460.90	73,664.71
Midland.....	31.50	29.00	830,282.17	4,703.4	31,354.15	23,167.07	33,713.99
Mildmay.....	42.00	39.00	36,200.93	142.4	949.28	1,111.26	1,429.72
Millbrook.....	40.00	34.00	24,163.86	100.3	668.63	775.68	944.47
Milton.....	28.50	28.50	284,676.80	1,453.1	9,686.76	8,099.33	11,700.53
Milverton.....	30.50	30.50	92,826.47	397.7	2,651.18	2,613.62	3,826.01
Mimico.....	22.50	23.50	468,163.97	2,704.8	18,030.93	11,686.94	19,387.22
Mitchell.....	29.50	29.50	158,821.05	756.9	5,045.71	4,460.21	6,529.83
Moorefield.....	52.00	45.00	19,815.64	49.9	332.65	317.10	816.20
Morrisburg.....	32.50	30.50	59,500.69	293.2	1,954.55	1,437.79	2,419.66

## SYSTEM

## S.O.—COST OF POWER

## and Eastern Ontario Divisions

Municipality as the Cost—under Power Commission Act—of Power supplied to from each Municipality, and the amount remaining to be credited supplied to it in the year ended October 31, 1944

costs and fixed charges			Revenue received in excess of cost of power sold to private companies	Amount charged to each municipality in respect of power supplied to it in the year	Amount received from (or billed against) each municipality by the Commission	Amount remaining to be credited or charged to each municipality Credited (Charged)
Provision for renewals	Provision for contingencies and obsolescence	Provision for sinking fund	Credit			
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
419.58	264.08	447.66	251.66	5,310.49	6,646.74	1,336.25
559.16	274.80	556.53	193.66	6,086.65	6,602.14	515.49
1,120.53	461.37	922.07	368.59	10,185.31	12,389.11	2,203.80
2,452.76	941.75	1,967.53	761.43	21,950.04	28,557.28	6,607.24
21,071.10	14,995.48	24,909.57	15,332.87	295,625.90	387,593.75	91,967.85
1,432.55	832.05	1,568.84	624.20	16,724.85	19,485.09	2,760.24
148.02	41.74	101.51	26.55	994.50	1,188.33	193.83
38,576.27	30,283.81	51,517.45	28,334.90	581,723.12	639,519.78	57,796.66
785.29	467.85	811.52	441.78	9,579.46	12,250.10	2,670.64
299.03	164.55	320.73	129.42	3,599.45	4,122.74	523.29
338.09	120.25	256.62	87.25	2,914.91	3,352.66	437.75
263.00	74.62	181.35	47.58	1,782.30	2,112.59	330.29
550.43	343.89	632.82	273.11	6,999.40	8,304.13	1,304.73
4,192.65	2,383.69	4,606.54	1,843.45	49,272.66	56,794.29	7,521.63
7,766.47	4,167.13	7,505.22	3,791.33	91,974.29	111,125.08	19,150.79
3,175.23	1,968.19	3,618.28	1,556.50	40,714.87	45,595.72	4,880.85
57,076.05	44,539.06	75,593.19	41,491.65	860,127.83	916,543.27	56,415.44
1,019.15	670.46	1,203.54	570.06	13,508.50	15,604.24	2,095.74
1,959.48	1,455.49	2,498.67	1,327.85	28,615.50	32,521.00	3,905.50
395.27	246.42	447.04	198.04	5,188.24	5,989.73	801.49
1,590.63	570.68	1,217.85	428.35	13,516.13	18,042.82	4,526.69
243.58	147.53	273.02	120.47	3,141.40	3,701.36	559.96
635.79	271.55	521.72	207.51	6,883.93	8,558.43	1,674.50
423.09	205.74	388.73	186.90	5,005.28	6,268.06	1,262.78
708.50	456.36	843.59	383.37	9,491.08	10,974.55	1,483.47
400.30	184.37	334.22	137.02	4,006.00	4,782.61	776.61
112.68	49.72	95.91	40.61	1,157.80	1,482.63	324.83
527.04	165.23	376.46	109.85	3,948.13	4,780.96	832.83
2,000.93	874.51	1,719.94	750.50	20,132.76	26,008.73	5,875.97
215.27	115.91	226.20	85.38	2,539.17	2,950.66	411.49
12,782.38	11,718.89	18,842.95	12,219.25	220,483.96	239,554.77	19,070.81
8,378.31	4,890.28	8,759.94	4,897.20	105,366.54	138,381.93	33,015.39
454.26	187.33	370.83	148.27	4,354.41	5,623.51	1,269.10
289.18	133.90	246.35	104.43	2,953.78	3,498.94	545.16
2,471.36	1,662.70	3,014.59	1,512.97	35,122.30	41,413.12	6,290.82
872.86	535.28	982.35	414.09	11,067.21	12,128.31	1,061.10
3,674.19	2,935.59	4,961.30	2,816.25	57,859.92	63,083.27	5,223.35
1,414.09	931.76	1,681.48	788.09	19,274.99	22,329.31	3,054.32
232.05	90.79	209.27	51.96	1,946.10	2,292.92	346.82
667.66	358.19	626.60	305.28	7,159.17	9,035.25	1,876.08

## SOUTHERN ONTARIO

Embracing Niagara, Georgian Bay,

**Statement showing the amount chargeable (upon annual adjustment) to each it by the Commission; the amount received by the Commission or charged to each Municipality in respect of power**

Municipality	Interim rates per horsepower collected by Commission during year		Share of capital cost of system	Average horsepower supplied in year after correction for power factor	Share of operating		
	To Dec. 31, 1943	From Jan. 1, 1944			Cost of power purchased	Operating maintenance and administrative expenses	Interest
Mount Brydges.....	\$ 34.00	32.50	\$ 21,689.04	97.7	\$ 651.29	\$ 880.01	.04
Mount Forest.....	44.00	41.50	131,595.41	499.5	3,329.80	4,816.72	5,360.36
Napanee.....	30.00	29.00	235,932.29	1,352.7	9,017.47	8,019.54	9,599.91
Neustadt.....	55.00	39.00	10,696.73	45.5	303.32	487.72	413.56
Newbury.....	45.00	42.00	9,570.87	34.1	227.32	400.82	391.10
Newcastle.....	33.50	32.50	35,166.34	155.8	1,038.61	871.80	1,432.80
New Hamburg.....	29.50	29.00	134,617.97	637.2	4,247.75	3,311.81	5,531.20
New Toronto.....	25.50	25.50	2,313,851.28	12,052.4	80,344.58	59,112.04	95,557.55
Niagara Falls.....	17.75	18.50	1,302,724.12	10,532.8	70,214.51	30,141.13	53,688.15
Niagara-on-the-Lake.....	22.50	22.50	133,409.63	862.8	5,751.66	3,606.13	5,385.06
North York Twp.	27.50	27.00	1,988,308.93	10,364.9	69,095.24	47,834.35	81,831.08
Norwich.....	30.50	30.00	91,699.48	421.8	2,811.83	2,334.03	3,764.78
Norwood.....	35.50	34.00	30,027.38	146.3	975.28	1,082.26	1,224.44
Oil Springs.....	37.50	35.00	44,458.87	180.0	1,199.93	1,559.06	1,814.69
Omemee.....	35.00	33.00	40,643.77	185.0	1,233.26	1,195.65	1,650.15
Orangeville.....	43.00	40.50	179,826.32	715.3	4,768.38	6,166.63	7,314.75
Orono.....	38.00	38.00	25,886.29	96.8	645.30	869.34	1,062.68
Oshawa.....	30.50	29.50	3,424,860.66	17,924.6	119,490.27	92,853.50	139,509.79
Ottawa (11,000-volt).....			964.69	19,649.1	216,139.90	11,603.46	39.62
Ottawa.....	20.50	21.50	2,420,907.72	17,083.9	113,885.93	56,017.51	99,805.93
Otterville.....	38.00	34.50	26,537.23	103.8	691.96	732.66	1,080.35
Owen Sound.....	32.00	30.50	1,146,543.34	5,960.8	39,736.32	28,797.53	46,774.90
Paisley.....	47.00	45.00	33,812.96	111.3	741.96	1,136.04	1,382.73
Palmerston.....	33.00	33.00	150,341.73	589.9	3,932.43	4,505.99	6,199.96
Paris.....	24.50	24.50	352,146.78	1,935.3	12,901.24	8,362.47	14,537.45
Parkhill.....	48.00	44.00	67,045.87	204.3	1,361.92	2,302.37	2,738.27
Penetanguishene.....	35.00	31.00	202,639.34	1,032.0	6,879.59	5,894.93	8,212.88
Perth.....	28.00	28.00	329,773.14	1,777.2	11,847.30	7,280.55	13,470.06
Peterborough.....	26.00	25.50	1,965,445.73	12,235.1	81,562.51	47,109.15	80,163.23
Petrolia.....	34.00	32.50	266,029.53	1,147.3	7,648.21	7,746.87	10,875.55
Picton.....	38.00	34.50	289,586.35	1,232.6	8,216.85	8,181.63	11,764.68
Plattsville.....	42.00	37.00	37,453.47	141.2	941.28	1,230.77	1,521.12
Point Edward.....	32.00	32.00	357,833.51	1,729.7	11,530.65	14,395.52	14,711.66
Port Colborne.....	24.50	24.50	370,414.65	1,956.7	13,043.90	8,171.07	15,177.16
Port Credit.....	28.00	27.50	173,377.05	912.0	6,079.64	4,271.61	7,110.85
Port Dalhousie.....	25.50	25.50	171,831.05	960.1	6,400.29	3,839.17	7,019.21
Port Dover.....	32.50	32.50	116,620.16	488.9	3,259.14	3,165.67	4,796.00
Port Elgin.....	39.00	37.00	123,044.26	489.3	3,261.81	3,218.45	5,019.08
Port Hope.....	31.00	30.00	451,663.41	2,487.5	16,582.35	16,095.81	18,370.62
Port McNicoll.....	37.00	35.00	21,313.17	99.2	661.29	691.19	869.22

## SYSTEM

## S.O.—COST OF POWER

## and Eastern Ontario Divisions

Municipality as the Cost—under Power Commission Act—of Power supplied to from each Municipality, and the amount remaining to be credited supplied to it in the year ended October 31, 1944

costs and fixed charges			Revenue received in excess of cost of power sold to private companies	Amount charged to each municipality in respect of power supplied to it in the year	Amount received from (or billed against) each municipality by the Commission	Amount remaining to be credited or charged to each municipality
Provision for renewals	Provision for contingencies and obsolescence	Provision for sinking fund	Credit		Credited	(Charged)
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
203.06	123.79	229.65	101.73	2,874.11	3,198.31	324.20
1,758.17	661.41	1,387.51	520.08	16,793.89	20,934.16	4,140.27
2,307.00	1,488.08	2,483.70	1,408.44	31,507.26	39,445.09	7,937.83
134.35	56.44	112.80	47.37	1,460.82	1,895.44	434.62
99.72	49.91	101.23	35.51	1,234.59	1,447.25	212.66
425.76	206.23	370.33	162.22	4,183.31	5,090.17	906.86
1,214.93	783.87	1,425.06	663.45	15,851.17	18,528.00	2,676.83
19,788.14	14,219.48	24,505.37	12,549.00	280,978.16	307,335.96	26,357.80
7,101.31	9,021.94	13,721.09	10,966.79	172,921.34	193,529.20	20,607.86
950.91	802.04	1,383.15	898.35	16,980.60	19,412.46	2,431.86
16,257.48	11,907.54	21,159.11	10,791.97	237,292.83	280,810.07	43,517.24
848.46	534.51	971.12	439.18	10,825.55	12,687.25	1,861.70
339.67	183.49	316.09	152.33	3,968.90	5,012.23	1,043.33
435.84	250.86	470.51	187.42	5,543.47	6,375.44	831.97
483.29	236.67	428.02	192.62	5,034.42	6,163.92	1,129.50
2,345.30	914.15	1,896.17	744.77	22,660.61	29,262.29	6,601.68
345.27	138.23	272.60	100.79	3,232.63	3,678.70	446.07
36,473.60	20,326.07	36,019.73	18,663.16	426,009.80	531,829.69	105,819.89
19.30	4.82	10.16	.....	227,817.26	227,817.26	.....
18,148.29	16,255.20	25,495.16	17,787.82	311,820.20	364,271.20	52,451.00
268.37	141.48	280.80	108.08	3,087.54	3,637.50	549.96
12,499.47	6,634.27	12,092.33	6,206.41	140,328.41	183,315.00	42,986.59
481.57	163.41	356.45	115.89	4,146.27	5,050.65	904.38
1,484.51	833.39	1,590.35	614.21	17,932.42	19,466.46	1,534.04
2,866.10	2,173.43	3,733.48	2,015.04	42,559.13	47,413.63	4,854.50
750.02	319.19	708.65	212.72	7,967.70	9,110.29	1,142.59
2,247.58	1,151.54	2,137.54	1,074.52	25,449.54	32,671.16	7,221.62
3,429.26	1,989.04	3,472.82	1,850.43	39,638.60	49,761.82	10,123.22
17,511.20	12,462.79	20,698.29	12,739.23	246,767.94	313,017.48	66,249.54
2,514.84	1,526.61	2,814.26	1,194.57	31,931.77	37,711.87	5,780.10
3,595.77	1,537.62	3,049.56	1,283.39	35,062.72	43,214.70	8,151.98
385.44	193.61	396.18	147.02	4,521.38	5,340.05	818.67
3,147.24	2,134.63	3,790.64	1,800.97	47,909.37	55,349.57	7,440.20
3,193.94	2,308.63	3,898.67	2,037.32	43,756.05	47,938.74	4,182.69
1,471.71	1,062.32	1,836.30	949.58	20,882.85	25,161.30	4,278.45
1,426.00	1,058.13	1,808.50	999.66	20,551.64	24,482.78	3,931.14
1,134.37	647.16	1,234.42	509.04	13,727.72	15,888.70	2,160.98
1,604.61	626.99	1,297.24	509.46	14,518.72	18,254.01	3,735.29
4,601.61	2,777.22	4,756.45	2,589.99	60,594.07	75,029.33	14,435.26
252.74	122.86	224.79	103.29	2,718.80	3,504.30	785.50

## SOUTHERN ONTARIO

Embracing Niagara, Georgian Bay,

**Statement showing the amount chargeable (upon annual adjustment) to each  
it by the Commission; the amount received by the Commission  
or charged to each Municipality in respect of power**

Municipality	Interim rates per horsepower collected by Commission during year		Share of capital cost of system	Average horsepower supplied in year after correction for power factor	Share of operating		
	To Dec. 31, 1943	From Jan. 1, 1944			Cost of power purchased	Operating maintenance and administrative expenses	Interest
Port Perry.....	\$ 45.00	\$ 42.50	\$ 78,862.42	287.8	\$ 1,918.55	\$ 3,264.30	\$ 3,163.74
Port Rowan.....	40.00	37.00	28,097.50	105.6	703.96	902.09	1,147.94
Port Stanley.....	32.50	32.50	146,345.84	608.9	4,059.09	4,233.57	6,023.72
Prescott.....	26.50	26.50	273,616.34	1,474.7	9,830.75	6,178.84	11,227.58
Preston.....	24.00	24.00	746,733.99	4,195.3	27,967.01	17,880.37	30,635.60
Priceville.....	57.00	45.00	2,799.23	10.0	66.66	138.23	111.95
Princeton.....	40.50	39.00	40,122.98	139.1	927.28	1,210.44	1,643.76
Queenston.....	23.00	23.00	19,593.73	128.4	855.95	605.58	805.22
Richmond.....	47.00	45.00	23,164.93	69.9	465.97	674.26	948.04
Richmond Hill...	29.00	25.50	102,386.23	496.7	3,311.14	2,375.63	4,198.32
Ridgetown.....	31.50	31.50	135,717.63	602.3	4,015.10	4,255.12	5,586.30
Ripley.....	62.00	45.00	37,412.45	106.1	707.29	912.93	1,504.91
Riverside.....	30.50	30.50	276,401.95	1,190.8	7,938.20	5,748.50	11,366.72
Rockwood.....	33.00	32.50	30,351.42	127.2	847.95	823.61	1,245.18
Rodney.....	42.00	41.50	41,632.69	139.5	929.95	1,548.36	1,706.05
Rosseau.....	62.00	45.00	22,044.67	30.7	204.65	(578.99)	906.41
Russell.....	46.00	45.00	23,173.15	72.9	485.97	791.10	953.74
St. Catharines....	20.50	20.50	4,621,108.72	30,240.4	201,590.74	97,988.06	189,859.54
St. Clair Beach...	35.50	35.50	24,783.14	96.5	643.30	727.41	1,018.64
St. George.....	35.50	35.50	40,564.44	161.0	1,073.27	1,138.07	1,668.84
St. Jacobs.....	28.50	28.50	68,194.90	341.0	2,273.20	1,938.59	2,804.99
St. Marys.....	30.50	30.50	338,429.27	1,613.8	10,758.03	11,661.61	13,945.30
St. Thomas.....	23.50	23.50	1,450,143.31	7,921.3	52,805.55	42,205.62	59,987.82
Sarnia.....	28.50	28.00	2,340,875.16	11,220.4	74,798.25	59,064.72	96,370.94
Scarborough Twp.	26.50	26.50	933,369.39	4,718.8	31,456.81	20,935.29	38,419.25
Seaforth.....	30.50	30.50	198,132.06	912.1	6,080.31	5,292.43	8,145.38
Shelburne.....	42.00	39.50	57,796.03	245.7	1,637.90	2,365.08	2,348.45
Simcoe.....	25.50	25.50	531,498.99	2,727.0	18,178.93	12,699.53	21,961.29
Smiths Falls.....	25.00	25.00	497,327.92	2,969.7	19,796.83	10,936.40	20,416.12
Smithville.....	33.00	31.00	38,229.63	170.5	1,136.60	1,009.65	1,553.73
Southampton.....	39.00	35.50	139,980.02	585.9	3,905.77	4,129.33	5,599.98
Springfield.....	40.00	39.50	19,123.75	66.3	441.97	668.37	783.44
Stamford Twp....	17.50	18.50	357,319.57	2,909.5	19,395.52	8,131.17	14,713.21
Stayner.....	38.00	35.50	60,890.84	278.5	1,856.56	2,043.75	2,479.85
Stirling.....	27.00	26.00	47,055.09	299.1	1,993.88	1,363.44	1,915.23

## SYSTEM

## S.O.—COST OF POWER

## and Eastern Ontario Divisions

Municipality as the Cost—under Power Commission Act—of Power supplied to from each Municipality, and the amount remaining to be credited supplied to it in the year ended October 31, 1944

costs and fixed charges			Revenue received in excess of cost of power sold to private companies	Amount charged to each municipality in respect of power supplied to it in the year	Amount received from (or billed against) each municipality by the Commission	Amount remaining to be credited or charged to each municipality
Provision for renewals	Provision for contingencies and obsolescence	Provision for sinking fund	Credit		Credited (Charged)	
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
1,049.67	377.56	818.75	299.66	10,292.91	12,348.24	2,055.33
288.64	148.10	297.25	109.95	3,378.03	3,961.79	583.76
1,430.26	811.26	1,546.88	633.99	17,470.79	19,787.90	2,317.11
2,844.82	1,652.92	2,881.32	1,535.46	33,080.77	39,079.77	5,999.00
5,895.58	4,647.33	7,875.32	4,368.16	90,533.05	100,686.00	10,152.95
38.50	15.56	29.51	10.41	390.00	470.00	80.00
428.11	198.79	424.26	144.83	4,687.81	5,457.07	769.26
142.26	124.80	206.36	133.69	2,606.48	2,953.00	346.52
339.44	103.81	243.94	72.78	2,702.68	3,164.05	461.37
878.71	600.82	1,083.92	517.17	11,931.37	12,942.81	1,011.44
1,261.26	778.06	1,436.92	627.12	16,705.64	18,972.46	2,266.82
562.66	166.24	394.34	110.47	4,137.90	5,094.43	956.53
2,570.42	1,594.91	2,923.13	1,239.87	30,902.01	36,319.92	5,417.91
296.16	169.54	321.08	132.44	3,571.08	4,145.01	573.93
448.79	206.58	439.41	145.25	5,133.89	5,801.25	667.36
387.47	77.33	232.39	31.96	1,197.30	1,466.74	269.44
335.46	107.72	245.01	75.90	2,843.10	3,293.35	450.25
33,072.25	30,152.97	48,634.13	31,486.42	569,811.27	619,928.01	50,116.74
244.07	135.11	262.00	100.48	2,930.05	3,426.33	496.28
407.48	222.32	429.26	167.63	4,771.61	5,714.03	942.42
592.47	409.52	722.12	355.05	8,385.84	9,719.22	1,333.38
2,974.40	2,024.88	3,584.39	1,680.29	43,268.32	49,219.87	5,951.55
11,801.13	9,006.18	15,346.19	8,247.69	182,904.80	186,149.95	3,245.15
20,710.50	13,884.02	24,796.39	11,682.72	277,942.10	315,116.53	37,174.43
7,776.53	5,513.79	9,883.39	4,913.23	109,071.83	125,047.72	15,975.89
1,805.24	1,138.85	2,097.30	949.68	23,609.83	27,817.79	4,207.96
726.14	312.07	609.48	255.82	7,743.30	9,804.65	2,061.35
4,542.52	3,181.89	5,632.43	2,839.36	63,357.23	69,537.47	6,180.24
4,655.82	3,166.05	5,237.39	3,092.06	61,116.55	74,243.29	13,126.74
368.96	223.86	402.40	177.53	4,517.67	5,349.94	832.27
1,734.68	722.06	1,455.04	610.04	16,936.82	21,107.08	4,170.26
203.58	95.24	202.01	69.03	2,325.58	2,623.06	297.48
1,923.60	2,483.75	3,763.52	3,029.38	47,381.39	53,310.21	5,928.82
730.66	347.90	642.19	289.98	7,810.93	9,997.06	2,186.13
407.86	302.97	495.34	311.42	6,167.30	7,826.17	1,658.87

## SOUTHERN ONTARIO

Embracing Niagara, Georgian Bay,

**Statement showing the amount chargeable (upon annual adjustment) to each  
it by the Commission; the amount received by the Commission  
or charged to each Municipality in respect of power**

Municipality	Interim rates per horsepower collected by Commission during year		Share of capital cost of system	Average horsepower supplied in year after correction for power factor	Share of operating		
	To Dec. 31, 1943	From Jan. 1, 1944			Cost of power purchased	Operating maintenance and administrative expenses	Interest
Stouffville.....	\$ 38.00	\$ 32.50	\$ 74,404.67	308.1	\$ 2,053.88	\$ 1,985.33	\$ 3,013.67
Stratford.....	25.50	26.00	1,446,554.37	7,403.6	49,354.42	37,141.84	59,764.02
Strathroy.....	29.50	28.00	315,573.74	1,559.7	10,397.39	7,948.73	12,914.58
Streetsville.....	32.00	30.00	45,158.35	226.5	1,509.91	1,671.18	1,847.36
Sunderland.....	50.00	45.00	23,107.42	78.8	525.30	959.94	943.32
Sutton.....	40.00	39.50	78,414.81	268.6	1,790.56	2,313.33	3,218.28
Swansea.....	28.00	27.50	512,728.47	2,973.9	19,824.83	21,036.98	21,041.49
Tara.....	42.00	39.50	28,932.32	110.5	736.62	870.60	1,178.10
Tavistock.....	30.00	30.00	146,850.57	664.7	4,431.07	4,125.07	6,044.23
Tecumseh.....	32.50	32.50	101,154.38	410.2	2,734.51	2,496.55	4,158.52
Teeswater.....	47.00	45.00	45,573.96	153.5	1,023.27	1,565.67	1,871.38
Thamesford.....	33.00	33.00	52,587.28	223.1	1,487.25	1,505.39	2,163.66
Thamesville.....	33.00	33.00	43,642.74	191.4	1,275.92	1,381.85	1,794.43
Thedford.....	49.00	45.00	41,212.23	121.8	811.95	1,275.40	1,695.30
Thorndale.....	44.00	44.00	24,927.67	81.8	545.30	943.06	1,026.20
Thornton.....	56.00	45.00	10,162.26	33.8	225.32	413.87	412.16
Thorold.....	21.00	23.00	420,538.97	2,644.1	17,626.29	9,125.13	17,414.36
Tilbury.....	32.00	30.50	324,291.87	1,496.5	9,976.08	9,201.86	13,298.33
Tillsonburg.....	28.50	28.50	290,330.36	1,424.8	9,498.10	7,050.16	11,936.20
Toronto.....	22.60	22.60	60,312,578.21	350,880.0	2,339,061.73	1,295,847.85	2,490,762.87
Toronto Twp....	27.50	27.50	626,115.32	3,227.9	21,518.06	16,206.64	25,780.42
Tottenham.....	62.00	45.00	38,509.81	92.8	618.63	347.87	1,572.85
Trafalgar Twp. Area No. 1....	26.50	27.50	84,500.75	408.0	2,719.84	2,410.34	3,489.54
Trafalgar Twp. Area No. 2....	27.50	28.50	35,058.60	156.0	1,039.94	956.82	1,451.05
Trenton.....	24.00	24.00	750,894.40	5,015.6	33,435.36	17,189.12	30,663.13
Tweed.....	45.00	41.50	69,308.31	253.0	1,686.57	2,246.69	2,824.03
Uxbridge.....	45.00	43.00	89,128.97	320.6	2,137.21	3,212.41	3,636.67
Victoria Harbour	38.00	36.50	17,491.12	77.8	518.64	669.45	686.65
Walkerton.....	34.00	31.00	190,869.44	993.7	6,624.28	5,135.42	7,738.43
Wallaceburg.....	30.50	30.00	905,656.22	4,209.4	28,061.01	22,993.84	37,235.46
Wardsville.....	50.00	44.00	11,269.83	37.3	248.65	488.97	459.09
Warkworth.....	38.00	37.00	18,037.98	72.7	484.64	654.20	736.55
Waterdown.....	27.50	27.00	47,862.58	252.1	1,680.57	1,327.39	1,968.25
Waterford.....	27.50	27.50	92,633.13	457.9	3,052.49	2,246.97	3,816.21
Waterloo.....	24.00	24.00	1,058,491.18	5,866.7	39,109.02	23,746.61	43,665.78

**SYSTEM****S.O.—COST OF POWER****and Eastern Ontario Divisions**

**Municipality as the Cost—under Power Commission Act—of Power supplied to from each Municipality, and the amount remaining to be credited supplied to it in the year ended October 31, 1944**

costs and fixed charges			Revenue received in excess of cost of power sold to private companies	Amount charged to each municipality in respect of power supplied to it in the year	Amount received from (or billed against) each municipality by the Commission	Amount remaining to be credited or charged to each municipality Credited (Charged)
Provision for renewals	Provision for contingencies and obsolescence	Provision for sinking fund	Credit			
\$ 708.48	\$ 400.08	\$ 787.07	\$ 320.79	\$ 8,627.72	\$ 10,267.43	\$ 1,639.71
12,227.73	8,816.86	15,321.25	7,708.65	174,917.47	191,902.66	16,985.19
2,781.70	1,833.15	3,343.21	1,623.97	37,594.79	44,044.80	6,450.01
396.99	272.08	478.16	235.83	5,939.85	6,860.93	921.08
324.31	110.62	243.61	82.05	3,025.05	3,608.17	583.12
820.90	385.89	828.85	279.67	9,078.14	10,622.36	1,544.22
3,768.41	3,160.50	5,433.70	3,096.44	71,169.47	82,054.71	10,885.24
385.28	156.41	305.02	115.05	3,516.98	4,408.11	891.13
1,352.49	857.13	1,554.33	692.09	17,672.23	19,941.25	2,269.02
974.56	564.26	1,069.50	427.10	11,570.80	13,332.58	1,761.78
642.97	241.40	480.45	159.82	5,665.32	6,954.94	1,289.62
509.61	295.41	556.64	232.29	6,285.67	7,361.23	1,075.56
408.55	252.03	462.06	199.29	5,375.55	6,315.42	939.87
461.84	196.97	435.56	126.82	4,750.20	5,553.83	803.63
271.54	120.75	263.55	85.17	3,085.23	3,599.58	514.35
144.12	50.79	107.13	35.19	1,318.20	1,582.86	264.66
3,136.99	2,732.87	4,425.85	2,753.05	51,708.44	59,874.62	8,166.18
2,979.99	1,901.40	3,434.40	1,558.16	39,233.90	46,035.71	6,801.81
2,574.69	1,696.60	3,075.84	1,483.51	34,348.08	40,606.09	6,258.01
441,884.93	371,983.78	639,182.21	365,337.37	7,213,386.00	7,929,887.97	716,501.97
5,395.91	3,815.73	6,630.64	3,360.90	75,986.50	88,767.94	12,781.44
607.87	162.75	405.85	96.62	3,619.20	4,422.61	803.41
760.02	514.51	892.84	424.81	10,362.28	11,153.98	791.70
332.77	210.73	370.99	162.42	4,199.88	4,421.36	221.48
6,082.24	4,952.82	7,907.80	5,222.26	95,008.21	120,373.80	25,365.59
937.12	348.13	730.75	263.42	8,509.87	10,645.33	2,135.46
1,221.77	430.54	939.69	333.81	11,244.48	13,893.33	2,648.85
200.72	94.27	177.61	81.01	2,266.33	2,860.06	593.73
2,079.17	1,123.82	2,013.46	1,034.64	23,679.94	31,273.50	7,593.56
8,233.62	5,287.41	9,591.70	4,382.84	107,020.20	126,626.69	19,606.49
121.09	56.58	119.16	38.84	1,454.70	1,681.96	227.26
231.24	96.59	189.95	75.70	2,317.47	2,702.72	385.25
405.90	290.89	507.24	262.49	5,917.75	6,829.33	911.58
813.56	556.58	981.43	476.77	10,990.47	12,591.56	1,601.09
8,471.75	6,556.75	11,215.27	6,108.43	126,656.75	140,800.00	14,143.25

## SOUTHERN ONTARIO

Embracing Niagara, Georgian Bay,

Statement showing the amount chargeable (upon annual adjustment) to each  
it by the Commission; the amount received by the Commission  
or charged to each Municipality in respect of power

Municipality	Interim rates per horsepower collected by Commission during year		Share of capital cost of system	Average horsepower supplied in year after correction for power factor	Share of operating		
	To Dec. 31, 1943	From Jan. 1, 1944			Cost of power purchased	Operating maintenance and administrative expenses	Interest
Watford.....	\$ 39.00	\$ 35.50	\$ 99,607.61	390.7	\$ 2,604.51	\$ 2,953.23	\$ 4,061.61
Waubaushene.....	37.00	33.00	22,326.53	109.6	730.62	714.32	905.49
Welland.....	19.50	20.00	1,743,473.57	11,245.6	74,966.23	39,578.61	71,674.92
Wellesley.....	38.00	33.50	29,637.88	119.6	797.29	834.12	1,202.83
Wellington.....	38.00	33.00	57,002.93	256.9	1,712.57	1,496.71	2,300.71
West Lorne.....	35.50	35.50	56,967.51	232.0	1,546.58	2,166.13	2,335.96
Weston.....	23.00	23.00	862,280.37	4,867.2	32,446.08	18,910.89	35,651.34
Westport.....	52.00	45.00	41,635.05	99.1	660.63	322.25	1,710.05
Wheatley.....	42.00	41.00	64,172.39	198.4	1,322.59	1,736.72	2,633.44
Whitby.....	30.50	29.00	263,635.73	1,418.3	9,454.77	6,739.90	10,706.42
Wiarton.....	49.00	45.00	90,307.06	278.6	1,857.22	2,912.02	3,698.36
Williamsburg.....	30.00	30.00	17,042.13	84.5	563.30	535.04	698.16
Winchester.....	31.00	31.00	73,847.94	364.8	2,431.86	2,079.20	3,020.21
Windermere.....	50.00	45.00	16,975.88	46.5	309.98	336.47	701.61
Windsor.....	26.00	26.00	10,724,286.35	53,200.6	354,649.70	218,142.07	442,693.69
Wingham.....	46.00	40.50	197,267.16	726.6	4,843.72	5,249.34	7,835.97
Woodbridge.....	28.50	28.50	128,321.88	629.7	4,197.75	3,322.08	5,268.17
Woodstock.....	24.50	24.50	1,522,782.24	8,367.5	55,780.04	36,003.39	62,857.17
Woodville.....	49.00	45.00	21,709.04	72.5	483.30	802.64	888.10
Wyoming.....	45.00	40.00	21,509.71	75.0	499.97	719.83	874.53
York Township.....	25.50	24.50	3,487,910.01	20,347.1	135,639.32	77,795.15	143,479.61
Zurich.....	45.00	42.00	41,028.52	131.2	874.61	1,527.28	1,679.87
Ontario Reformatory.....			58,222.72	306.6	2,043.88	1,431.18	2,391.79
Toronto Transportation Comm.....			125,650.14	711.0	4,739.72	3,010.83	5,085.56
Totals—Municipalities.....			198,292,925.95	1,132,491.9	7,634,653.41	4,587,334.08	8,168,053.97
Totals—Rural power district.....			18,347,989.98	85,314.3	589,367.00	454,827.28	755,116.64
Totals—Companies.....			45,438,863.05	265,211.2	2,562,183.96	1,425,668.15	1,883,494.14
Totals—Local distribution sys.....			1,005,195.95	3,196.4	21,308.08	50,104.35	40,905.35
Non-operating capital.....			263,084,974.93				
			527,061.96				
Grand totals.....			263,612,036.89	1,486,213.8	10,807,512.45	6,517,933.86	10,847,70.10

## SYSTEM

## S.O.—COST OF POWER

## and Eastern Ontario Divisions

Municipality as the Cost—under Power Commission Act—of Power supplied to from each Municipality, and the amount remaining to be credited supplied to it in the year ended October 31, 1944

costs and fixed charges			Revenue received in excess of cost of power sold to private companies	Amount charged to each municipality in respect of power supplied to it in the year	Amount received from (or billed against) each municipality by the Commission	Amount remaining to be credited or charged to each municipality Credited (Charged)
Provision for renewals	Provision for contingencies and obsolescence	Provision for sinking fund	Credit			
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
992.61	544.28	1,053.98	406.80	11,803.42	14,085.25	2,281.83
254.82	132.68	235.50	114.12	2,859.31	3,674.10	814.79
12,652.67	11,364.12	18,341.29	11,708.96	216,868.88	223,982.59	7,113.71
293.60	160.81	313.50	124.53	3,477.62	4,090.16	612.54
682.38	317.84	600.29	267.49	6,843.01	8,644.33	1,801.32
562.31	312.89	601.56	241.56	7,283.87	8,234.52	950.65
6,501.62	5,236.73	9,140.89	5,067.75	102,819.80	111,945.75	9,125.95
656.15	180.57	438.43	103.18	3,864.90	4,569.71	704.81
700.28	306.98	677.98	206.57	7,171.42	8,163.70	992.28
2,745.90	1,546.20	2,776.33	1,476.74	32,492.78	41,476.86	8,984.08
1,318.59	417.46	951.83	290.08	10,865.40	12,711.30	1,845.90
190.30	102.52	179.47	87.98	2,180.81	2,534.00	353.19
827.04	433.00	777.68	379.82	9,189.17	11,310.07	2,120.90
258.60	76.11	179.15	48.42	1,813.50	2,110.52	297.02
90,768.24	64,323.51	113,698.31	55,392.65	1,228,882.87	1,383,214.80	154,331.93
2,609.48	965.80	2,045.69	756.54	22,793.46	30,052.93	7,259.47
1,091.81	746.75	1,358.57	655.65	15,329.48	17,946.20	2,616.72
12,386.64	9,487.08	16,144.50	8,712.27	183,946.55	205,003.72	21,057.17
307.37	102.90	228.86	75.49	2,737.68	3,312.24	574.56
226.15	109.92	227.32	78.09	2,579.63	3,063.69	484.06
25,401.73	21,494.85	36,964.91	21,185.47	419,590.10	502,169.99	82,579.89
451.24	198.41	433.73	136.61	5,028.53	5,568.93	540.40
489.80	354.01	616.66	319.23	7,008.09	8,279.35	1,271.26
1,004.61	777.72	1,331.39	740.30	15,209.53	20,818.81	5,609.28
1,610,714.50	1,218,424.41	2,098,673.72	(1,158,695.77)	24,159,158.32	27,204,922.19	3,045,763.87
180,846.99	106,138.72	193,601.02	(88,829.55)	2,191,068.10	2,191,068.10	
380,582.96	8,098,582.50	481,910.46	1,214,369.36	16,046,791.53	16,046,791.53	
13,255.14	7,383.67	10,487.53	33,155.96	176,600.08	176,600.08	
2,185,399.59	9,430,529.30	2,784,672.73	.....	42,573,618.03	45,619,381.90	3,045,763.87

## SOUTHERN ONTARIO

Embracing Niagara, Georgian Bay and

**Statement showing the net Credit or Charge to each Municipality in respect of  
and adjustments made during the year. Also the net amount Credited  
ended October 31, 1944, and the accumulated amount standing**

Municipality	Date commenced operating	Net credit or charge at October 31, 1943	
		Credit	Charge
Acton.....	Jan. 1913	\$ 2,140.96	c.
Agincourt.....	Nov. 1922	1,077.61	c.
Ailsa Craig.....	Jan. 1916	442.52	c.
Alexandria.....	Jan. 1921	87.02	c.
Alliston.....	June 1918	2,925.85	c.
Alvinston.....	April 1922	762.10	c.
Amherstburg.....	Nov. 1925	1,861.46	c.
Ancaster Township.....	May 1923	701.65	c.
Apple Hill.....	April 1921	69.06	c.
Arkona.....	Dec. 1926	c.	c.
Arnprior.....	Jan. 1939	4,494.97	c.
Arthur.....	Dec. 1916	78.84	c.
Athens.....	Jan. 1929	191.81	c.
Aurora.....	April 1943	779.14	c.
Aylmer.....	Mar. 1918	1,709.29	c.
Ayr.....	Jan. 1915	c.	342.34
Baden.....	May 1912	1,166.38	c.
Barrie.....	April 1913	18,539.94	c.
Bath.....	Nov. 1931	78.18	c.
Beachville.....	Aug. 1912	1,057.87	c.
Beamsville.....	May 1937	779.79	c.
Beaverton.....	Nov. 1914	509.61	c.
Beeton.....	Aug. 1918	1,533.32	c.
Belle River.....	Dec. 1922	308.01	c.
Belleville.....	April 1929	21,009.14	c.
Blenheim.....	Nov. 1915	1,308.56	c.
Bloomfield.....	Apri 1919	572.47	c.
Blyth.....	July 1924	108.36	c.
Bolton.....	Feb. 1915	996.34	c.
Bothwell.....	Sept. 1915	352.69	c.
Bowmanville.....	Oct. 1931	9,593.75	c.
Bradford.....	Oct. 1918	1,470.84	c.
Brampton.....	Nov. 1911	3,575.94	c.
Brantford.....	Feb. 1914	3,872.55	c.
Brantford Township.....	May 1924	782.08	c.
Brechin.....	Jan. 1915	201.78	c.
Bridgeport.....	Mar. 1928	425.67	c.
Brigden.....	Jan. 1918	487.04	c.
Brighton.....	Nov. 1929	1,409.97	c.
Brockville.....	April 1915	1,450.82	c.

**SYSTEM****S.O.—CREDIT OR CHARGE****Eastern Ontario Divisions**

power supplied to it to October 31, 1943, the cash receipts and payments thereon or Charged to each Municipality in respect of power supplied in the year as a Credit or Charge to each Municipality at October 31, 1944

Cash receipts and payments on account of such credits and charges, also adjustments made during the year		Net amount credited or charged in respect of power supplied in the year ended October 31, 1944		Accumulated amount standing as a credit or charge on October 31, 1944	
Credited	Charged	Credited	Charged	Credit	Charge
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
	2,140.96	6,376.66		6,376.66	
	1,077.61	988.92		988.92	
	442.52	504.82		504.82	
	87.02	1,433.99		1,433.99	
	2,925.85	3,422.98		3,422.98	
	762.10	761.31		761.31	
	1,861.46	5,245.64		5,245.64	
	701.65	1,684.02		1,684.02	
	69.06	487.34		487.34	
		425.17		425.17	
	4,494.97	8,799.20		8,799.20	
	78.84	1,340.62		1,340.62	
	191.81	717.77		717.77	
	779.14	4,217.88		4,217.88	
	1,709.29	3,220.64		3,220.64	
342.34		855.83		855.83	
	1,166.38	2,214.62		2,214.62	
	18,539.94	30,967.24		30,967.24	
	78.18	297.58		297.58	
	1,057.87	2,904.11		2,904.11	
	779.79	1,836.93		1,836.93	
	509.61	1,985.37		1,985.37	
	1,533.32	1,274.62		1,274.62	
	308.01	660.84		660.84	
	21,009.14	42,395.32		42,395.32	
	1,308.56	2,311.77		2,311.77	
	572.47	913.26		913.26	
	108.36	705.04		705.04	
	996.34	571.31		571.31	
	352.69	614.31		614.31	
	9,593.75	15,469.47		15,469.47	
	1,470.84	1,621.62		1,621.62	
	3,575.94	8,575.68		8,575.68	
	3,872.55	46,012.05		46,012.05	
	782.08	3,043.07		3,043.07	
	201.78	539.88		539.88	
	425.67	566.95		566.95	
	487.04	755.78		755.78	
	1,409.97	2,469.18		2,469.18	
	1,450.82	18,331.81		18,331.81	

## SOUTHERN ONTARIO

Embracing Niagara, Georgian Bay and

**Statement showing the net Credit or Charge to each Municipality in respect of  
and adjustments made during the year. Also the net amount Credited  
ended October 31, 1944, and the accumulated amount standing**

Municipality	Date commenced operating	Net credit or charge at October 31, 1943	
		Credit	Charge
Brussels.....	July 1924	\$ 359.94	c.
Burford.....	June 1915	671.14	
Burgessville.....	Nov. 1916	411.99	
Caledonia.....	Oct. 1912	281.57	
Campbellville.....	Jan. 1925	181.18	
Cannington.....	Nov. 1914	823.74	
Cardinal.....	July 1930	807.23	
Carleton Place.....	May 1919	2,837.56	
Cayuga.....	Nov. 1924	13.88	
Chatham.....	Feb. 1915	5,008.87	
Chatsworth.....	Dec. 1915	131.48	
Chesley.....	July 1916	1,913.70	
Chesterville.....	April 1914	572.29	
Chippawa.....	Sept. 1919	127.34	
Clifford.....	May 1924	328.69	
Clinton.....	Mar. 1914	1,589.39	
Cobden.....	Nov. 1925	337.92	
Cobourg.....	Jan. 1932	8,150.33	
Colborne.....	Jan. 1933	474.28	
Coldwater.....	Mar. 1913	52.93	
Collingwood.....	Mar. 1913	18,425.88	
Comber.....	May 1915	404.72	
Cookstown.....	May 1918	691.89	
Cottam.....	Nov. 1926	46.44	
Courtright.....	Dec. 1923	422.07	
Creemore.....	Nov. 1914	762.28	
Dashwood.....	Sept. 1917	454.12	
Delaware.....	Mar. 1915	159.13	
Delhi.....	May 1938	356.12	
Deseronto.....	Jan. 1931	1,339.19	
Dorchester.....	Dec. 1914	63.40	
Drayton.....	Mar. 1918	174.43	
Dresden.....	April 1915	1,525.93	
Drumbo.....	Dec. 1914	385.00	
Dublin.....	Oct. 1917	123.27	
Dundalk.....	Dec. 1915	1,191.34	
Dundas.....	Jan. 1911		201.45
Dunville.....	June 1918	93.98	
Durham.....	Dec. 1915	2,166.37	
Dutton.....	Sept. 1915	491.42	

**SYSTEM****S.O.—CREDIT OR CHARGE****Eastern Ontario Divisions**

power supplied to it to October 31, 1943, the cash receipts and payments thereon or Charged to each Municipality in respect of power supplied in the year as a Credit or Charge to each Municipality at October 31, 1944

Cash receipts and payments on account of such credits and charges, also adjustments made during the year		Net amount credited or charged in respect of power supplied in the year ended October 31, 1944		Accumulated amount standing as a credit or charge on October 31, 1944	
Credited	Charged	Credited	Charged	Credit	Charge
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
	359.94	836.44		836.44	
	671.14	992.68		992.68	
	411.99	261.11		261.11	
	281.57	809.87		809.87	
	181.18	283.83		283.83	
	823.74	1,555.06		1,555.06	
	807.23	1,776.51		1,776.51	
	2,837.56	9,841.89		9,841.89	
	13.88	124.60		124.60	
	5,008.87	22,308.01		22,308.01	
	131.48	614.57		614.57	
	1,913.70	4,350.54		4,350.54	
	572.29	1,748.02		1,748.02	
	127.34	1,014.66		1,014.66	
	328.69	609.46		609.46	
	1,589.39	3,216.18		3,216.18	
	337.92	810.04		810.04	
	8,150.33	13,440.63		13,440.63	
	474.28	1,453.43		1,453.43	
	52.93	1,126.18		1,126.18	
	18,425.88	22,289.22		22,289.22	
	404.72	619.36		619.36	
	691.89	808.43		808.43	
	46.44	382.53		382.53	
	422.07	318.80		318.80	
	762.28	1,192.85		1,192.85	
	454.12	457.85		457.85	
	159.13	308.91		308.91	
	356.12	2,077.32		2,077.32	
	1,339.19	2,394.23		2,394.23	
	63.40	467.84		467.84	
	174.43	871.86		871.86	
	1,525.93	2,611.97		2,611.97	
	385.00	560.48		560.48	
	123.27	243.38		243.38	
	1,191.34	1,520.82		1,520.82	
201.45		5,127.92		5,127.92	
	93.98	2,017.01		2,017.01	
	2,166.37	3,249.06		3,249.06	
	491.42	928.55		928.55	

## SOUTHERN ONTARIO

Embracing Niagara, Georgian Bay and

Statement showing the net Credit or Charge to each Municipality in respect of  
and adjustments made during the year. Also the net amount Credited  
ended October 31, 1944, and the accumulated amount standing

Municipality	Date commenced operating	Net credit or charge at October 31, 1943	
		Credit	Charge
		\$ c.	\$ c.
East York Township.....	July 1925	25,315.59	.....
Elmira.....	Nov. 1913	1,036.94	.....
Elmvale.....	June 1913	868.42	.....
Elmwood.....	April 1918	.....	154.70
Elora.....	Nov. 1914	1,093.95	.....
Embro.....	Jan. 1915	799.00	.....
Erieau.....	July 1924	763.72	.....
Erie Beach.....	July 1925	17.54	.....
Essex.....	Nov. 1923	1,690.87	.....
Etobicoke Township.....	Aug. 1917	.....	5,693.16
Exeter.....	June 1916	1,443.72	.....
Fergus.....	Nov. 1914	3,742.68	.....
Finch.....	Feb. 1928	165.40	.....
Flesherton.....	Dec. 1915	217.72	.....
Fonthill.....	June 1926	311.25	.....
Forest.....	Mar. 1917	1,741.23	.....
Forest Hill.....	Jan. 1938	12,096.19	.....
Galt.....	May. 1911	6,790.73	.....
Georgetown.....	Sept. 1913	3,054.79	.....
Glencoe.....	Aug. 1920	589.67	.....
Goderich.....	Feb. 1914	4,764.98	.....
Grand Valley.....	Dec. 1916	715.20	.....
Granton.....	July 1916	180.52	.....
Gravenhurst.....	Nov. 1915	.....	1,113.16
Grimsby.....	Jan. 1942	.....	368.80
Guelph.....	Dec. 1910	.....	1,605.72
Hagersville.....	Sept. 1913	606.34	.....
Hamilton.....	Feb. 1911	20,403.20	.....
Hanover.....	Sept. 1916	5,585.14	.....
Harriston.....	July 1916	1,540.48	.....
Harrow.....	Nov. 1923	1,221.79	.....
Hastings.....	June 1931	344.60	.....
Havelock.....	Feb. 1921	.....	22.81
Hensall.....	Jan. 1917	758.23	.....
Hespeler.....	Feb. 1911	2,848.79	.....
Highgate.....	Dec. 1916	433.98	.....
Holstein.....	May 1916	.....	.....
Humberstone.....	Oct. 1924	149.35	.....
Huntsville.....	Sept. 1916	.....	2,427.09
Ingersoll,.....	May 1911	2,383.95	.....

## SYSTEM

S.O.—CREDIT OR CHARGE

## Eastern Ontario Divisions

power supplied to it to October 31, 1943, the cash receipts and payments thereon or Charged to each Municipality in respect of power supplied in the year as a Credit or Charge to each Municipality at October 31, 1944

Cash receipts and payments on account of such credits and charges, also adjustments made during the year		Net amount credited or charged in respect of power supplied in the year ended October 31, 1944		Accumulated amount standing as a credit or charge on October 31, 1944	
Credited	Charged	Credited	Charged	Credit	Charge
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
	25,315.59	44,764.17		44,764.17	
	1,036.94	6,517.12		6,517.12	
	868.42	1,101.26		1,101.26	
154.70		328.33		328.33	
	1,093.95	1,866.47		1,866.47	
	799.00	918.50		918.50	
	763.72	904.74		904.74	
	17.54	121.01		121.01	
	1,690.87	2,633.84		2,633.84	
5,693.16		16,905.13		16,905.13	
	1,443.72	3,154.79		3,154.79	
	3,742.68	5,226.41		5,226.41	
	165.40	659.63		659.63	
	217.72	562.75		562.75	
	311.25	898.45		898.45	
	1,741.23	3,073.55		3,073.55	
	12,096.19	25,030.04		25,030.04	
	6,790.73	24,089.59		24,089.59	
	3,054.79	7,847.82		7,847.82	
	589.67	1,108.28		1,108.28	
	4,764.98	7,809.53		7,809.53	
	715.20	1,260.99		1,260.99	
	180.52	347.04		347.04	
1,113.16		2,685.50		2,685.50	
368.80		1,757.84		1,757.84	
1,605.72		18,817.03		18,817.03	
	606.34	1,164.32		1,164.32	
	20,403.20	279,308.16		279,308.16	
	5,585.14	9,914.19		9,914.19	
	1,540.48	1,956.97		1,956.97	
	1,221.79	2,862.57		2,862.57	
	344.60	955.45		955.45	
22.81		962.13		962.13	
	758.23	861.99		861.99	
	2,848.79	6,852.23		6,852.23	
	433.98	465.05		465.05	
		169.59		169.59	
	149.35	1,165.46		1,165.46	
2,427.0		1,474.30		1,474.30	
	2,383.95	9,272.55		9,272.55	

## SOUTHERN ONTARIO

Embracing Niagara, Georgian Bay and

Statement showing the net Credit or Charge to each Municipality in respect of  
and adjustments made during the year. Also the net amount Credited  
ended October 31, 1944, and the accumulated amount standing

Municipality	Date commenced operating	Net credit or charge at October 31, 1943	
		Credit	Charge
Iroquois.....	Feb. 1940	\$ 323.54	.....
Jarvis.....	Feb. 1924	277.01	.....
Kemptville.....	Dec. 1921	727.96	.....
Kincardine.....	Mar. 1921	3,791.72	.....
Kingston.....	Nov. 1937	54,905.72	.....
Kingsville.....	Nov. 1923	1,165.93	.....
Kirkfield.....	June 1920	88.51	.....
Kitchener.....	Jan. 1911	11,175.75	.....
Lakefield.....	Aug. 1920	2,520.62	.....
Lambeth.....	April 1915	402.21	.....
Lanark.....	Sept. 1921	.....	12.28
Lancaster.....	May 1921	.....	.....
La Salle.....	Nov. 1925	674.77	.....
Leamington.....	Nov. 1923	3,394.49	.....
Lindsay.....	Mar. 1928	18,635.90	.....
Listowel.....	June 1916	1,628.05	.....
London.....	Jan. 1911	.....	13,162.39
London Township.....	Jan. 1925	996.49	.....
Long Branch.....	Jan. 1931	1,416.30	.....
Lucan.....	Feb. 1915	372.02	.....
Lucknow.....	Jan. 1921	2,419.43	.....
Lynden.....	Nov. 1915	183.94	.....
Madoc.....	Jan. 1930	842.66	.....
Markdale.....	Mar. 1916	824.79	.....
Markham.....	April 1920	1,316.28	.....
Marmora.....	Jan. 1921	508.38	.....
Martintown.....	May 1921	42.60	.....
Maxville.....	Feb. 1921	29.16	.....
Meaford.....	Jan. 1924	3,700.81	.....
Merlin.....	Dec. 1922	395.24	.....
Merritton.....	Nov. 1920	.....	3,599.90
Midland.....	July 1911	18,558.42	.....
Mildmay.....	Dec. 1932	692.99	.....
Millbrook.....	Dec. 1938	643.08	.....
Milton.....	April 1913	2,813.23	.....
Milverton.....	June 1916	264.65	.....
Mimico.....	May 1912	.....	1,843.52
Mitchell.....	Sept. 1911	1,275.84	.....
Moorefield.....	Mar. 1918	1.08	.....
Morrisburg.....	June 1938	1,037.47	.....

## SYSTEM

S.O.—CREDIT OR CHARGE

## **Eastern Ontario Divisions**

power supplied to it to October 31, 1943, the cash receipts and payments thereon or Charged to each Municipality in respect of power supplied in the year as a Credit or Charge to each Municipality at October 31, 1944

Cash receipts and payments on account of such credits and charges, also adjustments made during the year		Net amount credited or charged in respect of power supplied in the year ended October 31, 1944		Accumulated amount standing as a credit or charge on October 31, 1944	
Credited	Charged	Credited	Charged	Credit	Charge
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
323.54		1,336.25		1,336.25	
277.01		515.49		515.49	
727.96		2,203.80		2,203.80	
3,791.72		6,607.24		6,607.24	
54,905.72		91,967.85		91,967.85	
	1,165.93	2,760.24		2,760.24	
	88.51	193.83		193.83	
11,175.75		57,796.66		57,796.66	
2,520.62		2,670.64		2,670.64	
402.21		523.29		523.29	
12.28		437.75		437.75	
		330.29		330.29	
	674.77	1,304.73		1,304.73	
	3,394.49	7,521.63		7,521.63	
18,635.90		19,150.79		19,150.79	
	1,628.05	4,880.85		4,880.85	
13,162.39		56,415.44		56,415.44	
	996.49	2,095.74		2,095.74	
1,416.30		3,905.50		3,905.50	
372.02		801.49		801.49	
	2,419.43	4,526.69		4,526.69	
	183.94	559.96		559.96	
	842.66	1,674.50		1,674.50	
	824.79	1,262.78		1,262.78	
1,316.28		1,483.47		1,483.47	
	508.38	776.61		776.61	
	42.60	324.83		324.83	
	29.16	832.83		832.83	
3,700.81		5,875.97		5,875.97	
395.24		411.49		411.49	
8,599.90		19,070.81		19,070.81	
	18,558.42	33,015.39		33,015.39	
	692.99	1,269.10		1,269.10	
	643.08	545.16		545.16	
2,813.23		6,290.82		6,290.82	
	264.65	1,061.10		1,061.10	
1,843.52		5,223.35		5,223.35	
	1,275.84	3,054.32		3,054.32	
	1.08	346.82		346.82	
1,037.47		1,876.08		1,876.08	

## SOUTHERN ONTARIO

## Embracing Niagara, Georgian Bay and

**Statement showing the net Credit or Charge to each Municipality in respect of  
and adjustments made during the year. Also the net amount Credited  
ended October 31, 1944, and the accumulated amount standing**

Municipality	Date commenced operating	Net credit or charge at October 31, 1943	
		Credit	Charge
Mount Brydges.....	Mar. 1915	\$ 322.35	.....
Mount Forest.....	Dec. 1915	2,118.45	.....
Napanee.....	Nov. 1929	4,205.97	.....
Neustadt.....	Dec. 1918	795.12	.....
Newbury.....	Mar. 1921	155.49	.....
Newcastle.....	Jan. 1937	558.87	.....
New Hamburg.....	Mar. 1911	1,377.12	.....
New Toronto.....	Feb. 1914	1,111.63	.....
Niagara Falls.....	Dec. 1915	.....	7,733.88
Niagara-on-the-Lake.....	Aug. 1919	484.63	.....
North York Township.....	Nov. 1923	25,960.22	.....
Norwich.....	May 1912	979.33	.....
Norwood.....	Feb. 1921	415.45	.....
Oil Springs.....	Feb. 1918	836.54	.....
Omemee.....	Jan. 1940	702.98	.....
Orangeville.....	July 1916	3,287.63	.....
Orono.....	Nov. 1938	27.75	.....
Oshawa.....	Feb. 1929	48,311.75	.....
Ottawa.....	Jan. 1914	.....	16,964.15
Otterville.....	Feb. 1916	539.62	.....
Owen Sound.....	Dec. 1915	19,391.46	.....
Paisley.....	Sept. 1923	324.53	.....
Palmerston.....	July 1916	130.44	.....
Paris.....	Feb. 1914	1,246.96	.....
Parkhill.....	May 1920	1,073.25	.....
Penetanguishene.....	July 1911	5,645.81	.....
Perth.....	Feb. 1919	3,232.26	.....
Peterborough.....	Mar. 1913	27,817.23	.....
Petrolia.....	May 1916	4,154.00	.....
Picton.....	Apri 1919	6,144.48	.....
Plattsville.....	Dec. 1914	937.02	.....
Point Edward.....	Nov. 1916	3,664.11	.....
Port Colborne.....	Mar. 1920	1,287.89	.....
Port Credit.....	Aug. 1912	2,252.97	.....
Port Dalhousie.....	Nov. 1912	1,487.18	.....
Port Dover.....	Dec. 1921	827.32	.....
Port Elgin.....	Mar. 1931	1,846.76	.....
Port Hope.....	Nov. 1929	7,538.99	.....
Port McNicoll.....	Jan. 1915	373.22	.....
Port Perry.....	Sept. 1922	1,301.46	.....

## SYSTEM

## S.O.—CREDIT OR CHARGE

## Eastern Ontario Divisions

power supplied to it to October 31, 1943, the cash receipts and payments thereon or Charged to each Municipality in respect of power supplied in the year as a Credit or Charge to each Municipality at October 31, 1944

Cash receipts and payments on account of such credits and charges, also adjustments made during the year		Net amount credited or charged in respect of power supplied in the year ended October 31, 1944		Accumulated amount standing as a credit or charge on October 31, 1944	
Credited	Charged	Credited	Charged	Credit	Charge
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
	322.35	324.20		324.20	
	2,118.45	4,140.27		4,140.27	
	4,205.97	7,937.83		7,937.83	
	795.12	434.62		434.62	
	155.49	212.66		212.66	
	558.87	906.86		906.86	
	1,377.12	2,676.83		2,676.83	
	1,111.63	26,357.80		26,357.80	
7,733.88		20,607.86		20,607.86	
	484.63	2,431.86		2,431.86	
	25,960.22	43,517.24		43,517.24	
	979.33	1,861.70		1,861.70	
	415.45	1,043.33		1,043.33	
	836.54	831.97		831.97	
	702.98	1,129.50		1,129.50	
	3,287.63	6,601.68		6,601.68	
	27.75	446.07		446.07	
	48,311.75	105,819.89		105,819.89	
16,964.15		52,451.00		52,451.00	
	539.62	549.96		549.96	
	19,391.46	42,986.59		42,986.59	
	324.53	904.38		904.38	
	130.44	1,534.04		1,534.04	
	1,246.96	4,854.50		4,854.50	
	1,073.25	1,142.59		1,142.59	
	5,645.81	7,221.62		7,221.62	
	3,232.26	10,123.22		10,123.22	
	27,817.23	66,249.54		66,249.54	
	4,154.00	5,780.10		5,780.10	
	6,144.48	8,151.98		8,151.98	
	937.02	818.67		818.67	
	3,664.11	7,440.20		7,440.20	
	1,287.89	4,182.69		4,182.69	
	2,252.97	4,278.45		4,278.45	
	1,487.18	3,931.14		3,931.14	
	827.32	2,160.98		2,160.98	
	1,846.76	3,735.29		3,735.29	
	7,538.99	14,435.26		14,435.26	
	373.22	785.50		785.50	
	1,301.46	2,055.33		2,055.33	

## SOUTHERN ONTARIO

Embracing Niagara, Georgian Bay and

Statement showing the net Credit or Charge to each Municipality in respect of  
and adjustments made during the year. Also the net amount Credited  
ended October 31, 1944, and the accumulated amount standing

Municipality	Date commenced operating	Net credit or charge at October 31, 1943	
		Credit	Charge
Port Rowan.....	Nov. 1926	\$ 469.78	
Port Stanley.....	April 1912	426.47	
Prescott.....	Dec. 1913	527.32	
Preston.....	Jan. 1911	3,568.06	
Priceville.....	Mar. 1920	102.39	
Princeton.....	Jan. 1915	472.58	
Queenston.....	Mar. 1921		11.94
Richmond.....	Aug. 1928	126.49	
Richmond Hill.....	June 1925	1,192.99	
Ridgetown.....	Dec. 1915	806.32	
Ripley.....	Jan. 1921	1,204.67	
Riverside.....	Nov. 1922	1,748.49	
Rockwood.....	Sept. 1913	301.77	
Rodney.....	Feb. 1917	353.83	
Rosseau.....	July 1931		
Russell.....	Feb. 1926	72.86	
St. Catharines.....	April 1914		7,694.25
St. Clair Beach.....	Nov. 1922	164.74	
St. George.....	Sept. 1915	242.41	
St. Jacobs.....	Sept. 1917	522.58	
St. Marys.....	May 1911	1,526.49	
St. Thomas.....	April 1911		6,055.60
Sarnia.....	Dec. 1916	17,216.08	
Scarborough Township.....	Aug. 1918	6,555.18	
Seaforth.....	Nov. 1911	1,319.34	
Shelburne.....	July 1916	1,179.49	
Simcoe.....	Aug. 1915	267.51	
Smiths Falls.....	Sept. 1918	588.53	
Smithville.....	Nov. 1940	747.06	
Southampton.....	Feb. 1931	3,089.74	
Springfield.....	Aug. 1917	151.59	
Stamford Township.....	Nov. 1916		1,551.07
Stayner.....	Oct. 1913	1,187.82	
Stirling.....	Jan. 1930	806.33	
Stouffville.....	Sept. 1923	2,142.29	

**SYSTEM****S.O.—CREDIT OR CHARGE****Eastern Ontario Divisions**

**power supplied to it to October 31, 1943, the cash receipts and payments thereon or Charged to each Municipality in respect of power supplied in the year as a Credit or Charge to each Municipality at October 31, 1944**

Cash receipts and payments on account of such credits and charges, also adjustments made during the year		Net amount credited or charged in respect of power supplied in the year ended October 31, 1944		Accumulated amount standing as a credit or charge on October 31, 1944	
Credited	Charged	Credited	Charged	Credit	Charge
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
	469.78	583.76		583.76	
	426.47	2,317.11		2,317.11	
	527.32	5,999.00		5,999.00	
	3,568.06	10,152.95		10,152.95	
	102.39	80.00		80.00	
	472.58	769.26		769.26	
11.94		346.52		346.52	
	126.49	461.37		461.37	
	1,192.99	1,011.44		1,011.44	
	806.32	2,266.82		2,266.82	
	1,204.67	956.53		956.53	
	1,748.49	5,417.91		5,417.91	
	301.77	573.93		573.93	
	353.83	667.36		667.36	
		269.44		269.44	
	72.86	450.25		450.25	
7,694.25		50,116.74		50,116.74	
	164.74	496.28		496.28	
	242.41	942.42		942.42	
	522.58	1,333.38		1,333.38	
	1,526.49	5,951.55		5,951.55	
4,923.98		3,245.15		2,113.53	
	17,216.08	37,174.43		37,174.43	
	8,018.43	15,975.89		14,512.64	
	1,319.34	4,207.96		4,207.96	
	1,179.49	2,061.35		2,061.35	
	267.51	6,180.24		6,180.24	
	588.53	13,126.74		13,126.74	
	747.06	832.27		832.27	
	3,089.74	4,170.26		4,170.26	
	151.59	297.48		297.48	
1,551.07		5,928.82		5,928.82	
	1,187.82	2,186.13		2,186.13	
	806.33	1,658.87		1,658.87	
	2,142.29	1,639.71		1,639.71	

## SOUTHERN ONTARIO

Embracing Niagara, Georgian Bay and

Statement showing the net Credit or Charge to each Municipality in respect of  
and adjustments made during the year. Also the net amount Credited  
ended October 31, 1944, and the accumulated amount standing

Municipality	Date commenced operating	Net credit or charge at October 31, 1943	
		Credit	Charge
Stratford.....	Jan. 1911	\$ 238.28	c.
Strathroy.....	Dec. 1914	5,153.40	
Streetsville.....	Dec. 1934	857.06	
Sunderland.....	Nov. 1914	282.49	
Sutton.....	Aug. 1923	613.88	
Swansea.....	Oct. 1937	6,884.62	
Tara.....	Feb. 1918	470.26	
Tavistock.....	Nov. 1916	912.10	
Tecumseh.....	Nov. 1922	555.31	
Teeswater.....	Dec. 1920	124 99	
Thamesford.....	Feb. 1914	376.37	
Thamesville.....	Oct. 1915	393.51	
Theford.....	May 1922	151.03	
Thorndale.....	Mar. 1914	75.58	
Thornton.....	Nov. 1918	232.55	
Thorold.....	Jan. 1921	5,428.79	
Tilbury.....	April 1915	4,787.43	
Tillsonburg.....	Aug. 1911	2,620.52	
Toronto.....	June 1911	121,006.52	
Toronto Township.....	Aug. 1913	4,120.97	
Tottenham.....	Oct. 1918	472.94	
Trafalgar Area No. 1.....	Nov. 1936	303.17	
Trafalgar Area No. 2.....	Nov. 1936	202.66	
Trenton.....	Sept. 1931	8,044.80	
Tweed.....	Dec. 1930	1,232.99	
Uxbridge.....	Sept. 1922	1,347.21	
Victoria Harbour.....	July 1914	252.58	
Walkerton.....	Feb. 1931	4,598.07	
Wallaceburg.....	Feb. 1915	8,789.27	
Wardsville.....	June 1921	261.80	
Warkworth.....	Oct. 1923	196.93	
Waterdown.....	Nov. 1911	507.02	
Waterford.....	April 1915	531.91	
Waterloo.....	Dec. 1910	3,877.95	
Watford.....	Sept. 1917	2,030.64	

## SYSTEM

## S.O.—CREDIT OR CHARGE

## Eastern Ontario Divisions

power supplied to it to October 31, 1943, the cash receipts and payments thereon or Charged to each Municipality in respect of power supplied in the year as a Credit or Charge to each Municipality at October 31, 1944

Cash receipts and payments on account of such credits and charges, also adjustments made during the year		Net amount credited or charged in respect of power supplied in the year ended October 31, 1944		Accumulated amount standing as a credit or charge on October 31, 1944	
Credited	Charged	Credited	Charged	Credit	Charge
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
238.28		16,985.19		16,985.19	
	5,153.40	6,450.01		6,450.01	
	857.06	921.08		921.08	
	282.49	583.12		583.12	
	613.88	1,544.22		1,544.22	
	6,884.62	10,885.24		10,885.24	
	470.26	891.13		891.13	
	912.10	2,269.02		2,269.02	
	555.31	1,761.78		1,761.78	
	124.99	1,289.62		1,289.62	
	376.37	1,075.56		1,075.56	
	393.51	939.87		939.87	
	151.03	803.63		803.63	
	75.58	514.35		514.35	
	232.55	264.66		264.66	
5,428.79		8,166.18		8,166.18	
	4,787.43	6,801.81		6,801.81	
	2,620.52	6,258.01		6,258.01	
	121,006.52	716,501.97		716,501.97	
	4,120.97	12,781.44		12,781.44	
	472.94	803.41		803.41	
303.17		791.70		791.70	
202.66		221.48		221.48	
	8,044.80	25,365.59		25,365.59	
	1,232.99	2,135.46		2,135.46	
	1,347.21	2,648.85		2,648.85	
	252.58	593.73		593.73	
	4,598.07	7,593.56		7,593.56	
	8,789.27	19,606.49		19,606.49	
	261.80	227.26		227.26	
	196.93	385.25		385.25	
	507.02	911.58		911.58	
	531.91	1,601.09		1,601.09	
	3,877.95	14,143.25		14,143.25	
	2,030.64	2,281.83		2,281.83	

## SOUTHERN ONTARIO

Embracing Niagara, Georgian Bay and

Statement showing the net Credit or Charge to each Municipality in respect of  
and adjustments made during the year. Also the net amount Credited  
ended October 31, 1944, and the accumulated amount standing

Municipality	Date commenced operating	Net credit or charge at October 31, 1943	
		Credit	Charge
Waubaushene.....	Dec. 1914	\$ 567.28	
Welland.....	Sept. 1917		5,885.27
Wellesley.....	Nov. 1916	774.92	
Wellington.....	April 1919	1,520.57	
West Lorne.....	Jan. 1917	457.77	
Weston.....	Aug. 1911		1,917.72
Westport.....	Nov. 1931		
Wheatley.....	Feb. 1924	525.63	
Whitby.....	Jan. 1926	5,016.79	
Wiarton.....	May 1931	696.07	
Williamsburg.....	April 1915	64.40	
Winchester.....	Jan. 1914	582.11	
Windermere.....	June 1930		142.48
Windsor.....	Oct. 1914	38,621.31	
Wingham.....	Dec. 1920	5,544.81	
Woodbridge.....	Dec. 1914	1,284.51	
Woodstock.....	Jan. 1911	5,018.95	
Woodyville.....	Nov. 1914	220.38	
Wyoming.....	Nov. 1916	481.67	
York Township.....	Jan. 1941	34,681.72	
Zurich.....	Sept. 1917	668.55	
Ontario Reformatory.....	Sept. 1913	629.86	
Toronto Transportation Commission.....	Jan. 1927	4,389.33	
Grand totals.....		900,447.58	89,676.58

**SYSTEM****S.O.—CREDIT OR CHARGE****Eastern Ontario Divisions**

power supplied to it to October 31, 1943, the cash receipts and payments thereon or Charged to each Municipality in respect of power supplied in the year as a Credit or Charge to each Municipality at October 31, 1944

Cash receipts and payments on account of such credits and charges, also adjustments made during the year		Net amount credited or charged in respect of power supplied in the year ended October 31, 1944		Accumulated amount standing as a credit or charge on October 31, 1944	
Credited	Charged	Credited	Charged	Credit	Charge
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
5,885.27	567.28	814.79	.....	814.79	.....
.....	.....	7,113.71	.....	7,113.71	.....
.....	774.92	612.54	.....	612.54	.....
.....	1,520.57	1,801.32	.....	1,801.32	.....
.....	457.77	950.65	.....	950.65	.....
2,419.44	501.72	9,125.95	.....	9,125.95	.....
.....	.....	704.81	.....	704.81	.....
.....	525.63	992.28	.....	992.28	.....
.....	5,016.79	8,984.08	.....	8,984.08	.....
.....	696.07	1,845.90	.....	1,845.90	.....
.....	64.40	353.19	.....	353.19	.....
.....	582.11	2,120.90	.....	2,120.90	.....
142.48	.....	297.02	.....	297.02	.....
.....	38,621.31	154,331.93	.....	154,331.93	.....
.....	5,544.81	7,259.47	.....	7,259.47	.....
.....	1,284.51	2,616.72	.....	2,616.72	.....
.....	5,018.95	21,057.17	.....	21,057.17	.....
.....	220.38	574.56	.....	574.56	.....
.....	481.67	484.06	.....	484.06	.....
.....	34,681.72	82,579.89	.....	82,579.89	.....
.....	668.55	540.40	.....	540.40	.....
.....	629.86	1,271.26	.....	1,271.26	.....
.....	4,389.33	5,609.28	.....	5,609.28	.....
89,046.68	902,412.55	3,045,763.87	.....	3,043,169.00	.....

## SOUTHERN ONTARIO SYSTEM S.O.—SINKING FUND

Embracing Niagara, Georgian Bay and Eastern Ontario Divisions

## SINKING FUND

**Statement showing Sinking Fund paid by each Municipality in the periods mentioned hereunder, as part of the cost of power delivered thereto, together with the proportionate share of other sinking funds provided out of other revenues of the system, and interest allowed thereon to October 31, 1944**

Municipality	Period of years ended Oct. 31, 1944	Amount	Municipality	Period of years ended Oct. 31, 1944	Amount
Acton.....	27 years	\$ 100,331.07	Brussels.....	21 years	\$ 18,014.76
Agincourt.....	21 "	15,887.80	Burford.....	24 "	19,087.99
Ailsa Craig.....	24 "	20,424.82	Burgessville.....	23 "	7,171.08
Alexandria.....	20 "	39,473.20	Caledonia.....	27 "	31,546.74
Alliston.....	21 "	33,279.73	Campbellville.....	20 "	3,785.41
Alvinston.....	21 "	20,359.14	Cannington.....	25 "	20,858.07
Amherstburg.....	21 "	76,639.86	Cardinal.....	15 "	9,120.59
Ancaster Township.....	21 "	24,776.99	Carleton Place.....	20 "	108,729.13
Apple Hill.....	20 "	4,513.13	Cayuga.....	20 "	13,763.78
Arkona.....	18 "	8,672.86	Chatham.....	24 "	551,646.76
Arnprior.....	6 "	13,924.59	Chatsworth.....	24 "	6,362.72
Arthur.....	23 "	25,992.45	Chesley.....	23 "	49,704.81
Athens.....	16 "	9,015.48	Chesterville.....	25 "	34,848.52
Aurora.....	2 "	5,662.07	Chippawa.....	23 "	23,569.82
Aylmer.....	21 "	61,525.82	Clifford.....	21 "	10,306.45
Ayr.....	25 "	20,795.52	Clinton.....	25 "	64,474.80
Baden.....	27 "	43,972.18	Cobden.....	9 "	2,863.18
Barrie.....	26 "	221,065.67	Cobourg.....	13 "	72,961.31
Bath.....	13 "	3,071.30	Colborne.....	12 "	6,881.47
Beachville.....	27 "	57,253.32	Coldwater.....	26 "	19,683.64
Beamsville.....	8 "	9,186.94	Collingwood.....	26 "	189,397.78
Beaverton.....	25 "	27,654.46	Comber.....	24 "	24,475.92
Beeton.....	21 "	20,999.05	Cookstown.....	21 "	7,545.39
Belle River.....	22 "	14,922.69	Cottam.....	18 "	6,413.64
Belleville.....	16 "	255,969.76	Courtright.....	21 "	7,779.49
Blenheim.....	24 "	52,104.74	Creemore.....	25 "	16,173.00
Bloomfield.....	16 "	8,862.47	Dashwood.....	22 "	11,638.94
Blyth.....	21 "	13,828.82	Delaware.....	24 "	4,770.52
Bolton.....	24 "	23,862.34	Delhi.....	7 "	11,061.99
Bothwell.....	24 "	22,763.32	Deseronto.....	14 "	10,642.11
Bowmanville.....	13 "	94,753.51	Dorchester.....	25 "	10,512.56
Bradford.....	21 "	24,725.21	Drayton.....	21 "	17,575.34
Brampton.....	28 "	236,228.03	Dresden.....	24 "	44,036.20
Brantford.....	25 "	1,297,306.73	Drumbo.....	25 "	9,237.50
Brantford Township.....	21 "	51,791.08	Dublin.....	22 "	7,636.35
Brechin.....	25 "	9,943.97	Dundalk.....	24 "	17,739.77
Bridgeport.....	17 "	9,318.68	Dundas.....	28 "	196,130.13
Brigden.....	22 "	15,746.38	Dunnville.....	22 "	88,299.82
Brighton.....	15 "	17,094.98	Durham.....	24 "	41,834.44
Brockville.....	24 "	241,712.49	Dutton.....	24 "	26,978.37

## SOUTHERN ONTARIO SYSTEM - S.O.—SINKING FUND

Embracing Niagara, Georgian Bay and Eastern Ontario Divisions

## SINKING FUND

Statement showing Sinking Fund paid by each Municipality in the periods mentioned hereunder, as part of the cost of power delivered thereto, together with the proportionate share of other sinking funds provided out of other revenues of the system, and interest allowed thereon to October 31, 1944

Municipality	Period of years ended Oct. 31, 1944	Amount	Municipality	Period of years ended Oct. 31, 1944	Amount
		\$ c.			\$ c.
East York Township.	20 years	411,797.76	Iroquois.....	5 years	2,492.58
Elmira.....	26 "	105,089.34	Jarvis.....	21 "	21,004.46
Elmvale.....	26 "	19,953.56	Kemptville.....	20 "	28,245.94
Elmwood.....	21 "	5,824.87	Kincardine.....	20 "	60,037.18
Elora.....	25 "	50,166.36	Kingston.....	7 "	186,109.61
Embroy.....	25 "	15,356.54	Kingsville.....	21 "	57,267.04
Erieau.....	21 "	9,645.81	Kirkfield.....	20 "	4,298.33
Erie Beach.....	20 "	2,297.14	Kitchener.....	28 "	1,827,759.13
Essex.....	21 "	44,918.71	Lakefield.....	16 "	18,526.31
Etobicoke Township.	22 "	338,384.68	Lambeth.....	24 "	13,363.40
Exeter.....	23 "	58,887.04	Lanark.....	20 "	8,402.98
Fergus.....	25 "	90,900.54	Lancaster.....	20 "	8,050.22
Finch.....	17 "	6,315.47	La Salle.....	19 "	19,864.16
Flesherton.....	24 "	8,709.14	Leamington.....	21 "	126,612.32
Fonthill.....	19 "	9,585.43	Lindsay.....	16 "	145,145.09
Forest.....	22 "	47,590.37	Listowel.....	23 "	110,176.71
Forest Hill.....	21 "	271,996.64	London.....	28 "	3,342,299.85
Galt.....	28 "	766,522.01	London Township.....	20 "	30,597.92
Georgetown.....	26 "	145,910.21	Long Branch.....	14 "	43,158.15
Glencoe.....	21 "	27,992.19	Lucan.....	24 "	24,447.51
Goderich.....	25 "	170,000.86	Lucknow.....	20 "	28,333.92
Grand Valley.....	23 "	16,397.26	Lynden.....	24 "	17,170.03
Granton.....	23 "	10,758.92	Madoc.....	15 "	11,467.51
Gravenhurst.....	24 "	44,437.96	Markdale.....	23 "	14,258.16
Grimsby.....	3 "	6,237.04	Markham.....	21 "	27,294.20
Guelph.....	28 "	913,148.29	Marmora.....	16 "	8,062.40
Hagersville.....	26 "	103,478.47	Martintown.....	20 "	2,858.02
Hamilton.....	28 "	7,169,387.46	Maxville.....	20 "	12,832.45
Hanover.....	23 "	111,497.43	Meadford.....	20 "	43,533.88
Harriston.....	23 "	46,753.36	Merlin.....	21 "	15,303.64
Harrow.....	21 "	37,069.78	Merritton.....	23 "	268,650.79
Hastings.....	14 "	5,585.28	Midland.....	26 "	301,488.60
Havelock.....	16 "	16,249.35	Mildmay.....	12 "	5,446.62
Hensall.....	23 "	22,976.38	Millbrook.....	6 "	1,600.80
Hespeler.....	28 "	166,386.29	Milton.....	26 "	135,629.06
Highgate.....	23 "	12,962.85	Milverton.....	23 "	55,698.34
Holstein.....	23 "	3,591.06	Mimico.....	27 "	194,275.33
Humberstone.....	21 "	31,014.04	Mitchell.....	28 "	61,164.37
Huntsville.....	23 "	83,391.82	Moorefield.....	21 "	8,280.72
Ingersoll.....	28 "	255,320.80	Morrisburg.....	7 "	3,920.17

## SOUTHERN ONTARIO SYSTEM S.O.—SINKING FUND

Embracing Niagara, Georgian Bay and Eastern Ontario Divisions

## SINKING FUND

**Statement showing Sinking Fund paid by each Municipality in the periods mentioned hereunder, as part of the cost of power delivered thereto, together with the proportionate share of other sinking funds provided out of other revenues of the system, and interest allowed thereon to October 31, 1944**

Municipality	Period of years ended Oct. 31, 1944	Amount	Municipality	Period of years ended Oct. 31, 1944	Amount
Mount Brydges.....	24 years	\$ 10,385.13	Port Dover.....	21 years	36,732.87
Mount Forest.....	24 "	45,631.10	Port Elgin.....	14 "	19,611.03
Napanee.....	15 "	60,030.15	Port Hope.....	15 "	87,349.81
Neustadt.....	21 "	8,264.27	Port McNicoll.....	25 "	8,583.92
Newbury.....	21 "	5,865.18	Port Perry.....	20 "	24,732.64
Newcastle.....	8 "	3,767.10	Port Rowan.....	18 "	9,532.21
New Hamburg.....	28 "	65,825.24	Port Stanley.....	27 "	55,574.44
New Toronto.....	25 "	654,955.44	Prescott.....	25 "	68,685.62
Niagara Falls.....	24 "	757,838.84	Preston.....	28 "	347,380.71
Niagara-on-the-Lake.	21 "	44,458.78	Priceville.....	20 "	1,293.24
North York Township	21 "	268,665.03	Princeton.....	25 "	13,047.73
Norwich.....	27 "	48,642.30	Queenston.....	21 "	9,376.67
Norwood.....	16 "	8,381.91	Richmond.....	17 "	4,409.30
Oil Springs.....	21 "	32,156.33	Richmond Hill.....	20 "	28,642.50
Omemee.....	5 "	2,481.71	Ridgetown.....	24 "	57,544.43
Orangeville.....	23 "	62,204.95	Ripley.....	20 "	11,010.13
Orono.....	6 "	1,781.27	Riverside.....	22 "	110,647.31
Oshawa.....	16 "	776,725.94	Rockwood.....	26 "	14,901.11
Ottawa.....	29 "	317,653.52	Rodney.....	22 "	18,361.26
Otterville.....	23 "	12,002.90	Rousseau.....	14 "	5,135.38
Owen Sound.....	24 "	305,361.90	Russell.....	19 "	7,571.87
Paisley.....	20 "	14,975.09	St. Catharines.....	23 "	942,552.65
Palmerston.....	23 "	58,828.37	St. Clair Beach.....	22 "	9,289.91
Paris.....	25 "	152,550.33	St. George.....	24 "	18,738.26
Parkhill.....	21 "	26,052.24	St. Jacobs.....	22 "	22,771.65
Penetanguishene.....	28 "	86,008.49	St. Marys.....	28 "	174,595.42
Perth.....	20 "	96,302.12	St. Thomas.....	28 "	665,502.48
Peterborough.....	16 "	457,121.37	Sarnia.....	23 "	857,697.18
Petrolia.....	23 "	135,563.75	Scarborough Twp.....	21 "	269,442.34
Picton.....	16 "	75,282.26	Seaforth.....	28 "	81,130.57
Plattsburgh.....	25 "	12,600.11	Shelburne.....	23 "	25,973.02
Point Edward.....	22 "	89,515.48	Simcoe.....	24 "	153,912.55
Port Colborne.....	23 "	136,834.17	Smiths Falls.....	21 "	140,342.89
Port Credit.....	27 "	57,234.26	Smithville.....	4 "	1,996.08
Port Dalhousie.....	23 "	52,002.03	Southampton.....	14 "	18,287.53

## SOUTHERN ONTARIO SYSTEM S.O.—SINKING FUND

Embracing Niagara, Georgian Bay and Eastern Ontario Divisions

## SINKING FUND

Statement showing Sinking Fund paid by each Municipality in the periods mentioned hereunder, as part of the cost of power delivered thereto, together with the proportionate share of other sinking funds provided out of other revenues of the system, and interest allowed thereon to October 31, 1944

Municipality	Period of years ended Oct. 31, 1944	Amount	Municipality	Period of years ended Oct. 31, 1944	Amount
Springfield.....	22 years	\$ 11,879.90	Warkworth.....	16 "	5,409.54
Stamford Township.....	23 "	135,147.22	Waterdown.....	28 "	29,040.50
Stayner.....	26 "	23,018.93	Waterford.....	24 "	43,189.69
Stirling.....	15 "	12,483.49	Waterloo.....	28 "	362,226.63
Stouffville.....	21 "	23,477.79	Watford.....	22 "	32,871.86
Stratford.....	28 "	787,235.59	Waubaushene.....	25 "	6,333.35
Strathroy.....	25 "	120,812.52	Welland.....	22 "	436,662.77
Streetsville.....	10 "	5,209.42	Wellesley.....	23 "	20,857.46
Sunderland.....	25 "	13,396.88	Wellington.....	16 "	14,177.96
Sutton.....	21 "	23,300.08	West Lorne.....	23 "	32,445.94
Swansea.....	19 "	124,620.77	Weston.....	28 "	324,382.89
Tara.....	21 "	11,517.96	Westport.....	13 "	7,396.36
Tavistock.....	23 "	61,245.22	Wheatley.....	21 "	19,123.53
Tecumseh.....	22 "	35,811.47	Whitby.....	16 "	72,192.00
Teeswater.....	20 "	16,773.50	Wiarton.....	14 "	20,977.67
Thamesford.....	25 "	22,923.19	Williamsburg.....	24 "	8,322.06
Thamesville.....	24 "	23,215.61	Winchester.....	25 "	26,297.70
Thedford.....	21 "	13,065.76	Windermere.....	15 "	3,517.48
Thorndale.....	25 "	11,304.18	Windsor.....	25 "	4,120,207.86
Thornton.....	21 "	4,504.96	Wingham.....	20 "	52,573.28
Thorold.....	22 "	141,715.85	Woodbridge.....	25 "	43,776.58
Tilbury.....	24 "	69,393.15	Woodstock.....	28 "	554,454.67
Tillsonburg.....	28 "	119,214.12	Woodville.....	25 "	13,040.99
Toronto.....	28 "	25,507,933.23	Wyoming.....	23 "	10,861.71
Toronto Township.....	26 "	163,214.48	York Township.....	24 "	1,019,808.89
Tottenham.....	21 "	14,511.32	Zurich.....	22 "	17,620.36
Trafalgar Twp. Area No. 1.....	8 "	10,003.01	Ontario Reformatory.....	10 "	9,359.12
Trafalgar Twp. Area No. 2.....	8 "	3,612.95	Toronto Transpor- tation Commission.....	23 "	216,187.81
Trenton.....	13 "	126,935.79	Sandwich, Windsor & Amherstburg Rly.....	22 "	213,707.54
Tweed.....	14 "	14,274.45			
Uxbridge.....	20 "	26,818.31	Total—Municipalities.....		69,029,247.31
Victoria Harbour.....	25 "	8,687.93	Total—Rural power dis- trict.....		6,199,226.54
Walkerton.....	14 "	31,324.49			
Wallaceburg.....	24 "	262,139.47	Grand total.....		75,228,473.85
Wardsville.....	21 "	4,905.00			

**SOUTHERN ONTARIO SYSTEM****Embracing Niagara, Georgian Bay and Eastern Ontario Divisions****RURAL POWER DISTRICT****Operating Account for year ended October 31, 1944**

Revenue from customers in rural power district.....	\$5,463,906.30
Cost of power as provided to be paid under Power Commission Act..	\$2,191,068.10
Cost of operation, maintenance and administration.....	1,436,246.41
Interest.....	807,112.27
Provision for renewals.....	388,070.49
Provision for sinking fund.....	206,931.94
	<hr/>
	5,029,429.21
Balance.....	<hr/> \$434,477.09 <hr/>

**Rates Suspense Account—as at October 31, 1944**

Balance at credit November 1, 1943.....	\$2,185,635.46
Interest on account balance.....	87,384.88
Operating balance for the year.....	434,477.09
Adjustments made during the year.....	\$2,271.96
Balance at credit October 31, 1944.....	2,705,225.47
	<hr/> \$2,707,497.43 \$2,707,497.43

**SOUTHERN ONTARIO SYSTEM—Rural Lines****Embracing Niagara, Georgian Bay and Eastern Ontario Divisions****CERTAIN RURAL LINES OPERATED BY MUNICIPALITIES**

**Statement showing Interest, Renewals, Contingencies and Obsolescence and Sinking Fund charged by the Commission to the Municipalities which operate the respective rural lines for the year ended October 31, 1944**

Operated by	Capital cost	Interest	Provision for renewals	Provision for contingencies and obsolescence	Provision for sinking fund	Total interest, renewals, contingencies and obsolescence and sinking fund charged
Milton.....	\$ 440.82	\$ 21.86	\$ 8.82	\$ 4.41	\$ 3.95	\$ 39.04
Brechin.....	922.02	48.22	18.44	9.22	16.60	92.48
Totals.....	1,362.84	70.08	27.26	13.63	20.55	131.52

**Statement showing the total Sinking Fund in respect of each line, together with interest allowed thereon to October 31, 1944**

Operated by	Period of years ended October 31, 1944	Amount
Milton.....	31 years	\$ 440.82
Brechin.....	26 years	691.55
Total.....		1,132.37

## THUNDER BAY

**Statement showing the amount chargeable (upon annual adjustment) to each Municipality by the Commission; the amount received by the Commission or charged to each Municipality in respect of power**

Municipality	Interim rates per horsepower collected by Commission during year  To Oct. 31, 1944	Share of capital cost of system	Average horsepower supplied in year after correction for power factor	Share of operating		
				Operating, maintenance and administrative expenses	Interest	Provision for renewals
Fort William.....	\$ 21.00	\$ 2,586,969.46	15,485.3	\$ 48,824.92	\$ 120,127.62	\$ 22,991.12
Nipigon Township.....	28.00	33,258.30	223.2	1,937.19	1,527.26	275.54
Port Arthur.....	21.00	3,774,338.10	22,673.4	70,755.67	175,341.05	33,461.23
Totals—Municipalities.....		6,394,565.86	38,381.9	121,517.78	296,995.93	56,727.89
Totals—Rural power district.....		144,111.32	708.2	2,621.11	6,738.11	1,438.60
Totals—Companies.....		8,482,641.62	51,983.7	168,313.12	390,040.53	71,978.27
Totals—Rainy River District (N.O.P.).....		2,580,148.47	16,971.5	44,152.11	120,640.26	21,449.04
Totals—Mining area—mines.....		1,907,450.36	7,739.7	36,220.01	89,211.71	7,920.22
Totals—Mining area—townsites.....		247,275.18	547.6	14,826.70	11,555.39	560.37
Non-operating capital.....		19,756,192.81 586,392.08				
Grand totals.....		20,342,584.89	116,332.6	387,650.83	915,181.93	160,074.39

## THUNDER BAY

**Statement showing the net Credit or Charge to each Municipality in respect of and adjustments made during the year; also the net amount Credited ended October 31, 1944, and the accumulated amount standing**

Municipality	Date commenced operating	Net credit or charge at October 31, 1943	
		Credit	Charge
Fort William.....	Oct. 1926	\$ 34,770.64	.....
Nipigon Township.....	Jan. 1925	1,252.86	.....
Port Arthur.....	Dec. 1910	48,071.38	.....
Grand totals.....		84,094.88	.....

**SYSTEM****T.B.—COST OF POWER**

**Municipality as the Cost—under Power Commission Act—of Power supplied to from each Municipality, and the amount remaining to be credited supplied to it in the year ended October 31, 1944**

costs and fixed charges			Revenue received in excess of cost of power sold to private companies	Amount charged to each municipality in respect of power supplied to it in the year	Amount received from (or billed against) each municipality by the Commission	Amount remaining to be credited to each municipality
Provision for contingencies and obsolescence	Provision for stabilization of rates	Provision for sinking fund	Credit			
\$ 74,060.95	\$ 27,243.03	\$ 2,945.52	\$ 290,302.12	\$ 325,191.68	\$ 34,889.56	
1,048.88	350.24	42.46	5,096.65	6,250.08	1,153.43	
108,371.84	39,747.07	4,312.80	423,364.06	476,141.79	52,777.73	
183,481.67	67,340.34	(7,300.78)	718,762.83	807,583.55	88,820.72	
3,516.12	1,517.60	(134.71)	15,696.83	15,696.83		
246,886.35	87,847.31	7,435.49	972,501.07	972,501.07		
12,033.40	27,171.34		225,446.15	225,446.15		
85,922.25	38,808.01	10,943.82	269,026.02	269,026.02		
16,541.92	(5,014.11)	774.30	39,244.57	39,244.57		
548,381.71	33,793.90	195,594.71	2,240,677.47	2,329,498.19	88,820.72	

**SYSTEM****T.B.—CREDIT OR CHARGE**

**power supplied to it to October 31, 1943, the cash receipts and payments thereon, or Charged to each Municipality in respect of power supplied in the year as a Credit or Charge to each Municipality at October 31, 1944**

Cash receipts and payments on account of such credits and charges, also adjustments made during the year		Net amount credited or charged in respect of power supplied in the year ended October 31, 1944		Accumulated amount standing as a credit or charge on October 31, 1944	
Credited	Charged	Credited	Charged	Credit	Charge
\$ 34,770.64	\$ 34,889.56			\$ 34,889.56	
1,252.86	1,153.43			1,153.43	
48,071.38	52,777.73			52,777.73	
84,094.88	88,820.72			88,820.72	

## THUNDER BAY SYSTEM

## SINKING FUND

Statement showing Sinking Fund paid by each Municipality in the periods mentioned hereunder, as part of the cost of power delivered thereto, together with the proportionate share of other sinking funds provided out of other revenues of the system, and interest allowed thereon to October 31, 1944

Municipality	Period of years ended October 31, 1944	Amount
Fort William.....	18 years	\$ 1,051,765.28
Nipigon Township.....	18 years	10,252.85
Port Arthur.....	18 years	2,924,877.71
Total—Municipalities.....		3,986,895.84
Total—Rural power district.....		44,539.68
Grand total.....		4,031,435.52

## THUNDER BAY SYSTEM

## RURAL POWER DISTRICT

## Operating Account for year ended October 31, 1944

Revenue from customers in rural power district.....	\$51,092.53
Cost of power as provided to be paid under Power Commission Act.....	\$15,696.83
Cost of operation, maintenance and administration.....	17,814.59
Interest.....	11,755.34
Provision for renewals.....	5,028.70
Provision for sinking fund.....	2,647.61
	52,943.07
Balance.....	\$1,850.54

## Rates Suspense Account as at October 31, 1944

Balance at debit, November 1, 1943.....	\$8,647.67
Interest on account balances.....	347.10
Operating balance for the year.....	1,850.54
Adjustments made during the year.....	381.43
Balance at debit, October 31, 1944.....	\$11,226.74
	\$11,226.74 \$11,226.74

## NORTHERN ONTARIO PROPERTIES

(Operated by The Hydro-Electric Power Commission of Ontario)

### FINANCIAL ACCOUNTS

For the year ended October 31, 1944

Relating to Power Properties which are held and operated by the Commission in trust for the Province of Ontario, and which are situated in the following Northern Districts:

Abitibi	Sudbury	Nipissing	Patricia
Rainy River		Rural Power	

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### STATEMENTS

Balance Sheet as at October 31, 1944

Operating Account for the year ended October 31, 1944

Schedules supporting the Balance Sheet as at October 31, 1944

Fixed Assets—By Districts

Renewals Reserve

Contingencies and Obsolescence Reserve

Sinking Fund Reserve

**THE HYDRO-ELECTRIC POWER  
NORTHERN ONTARIO**

Held and Operated by The Hydro-Electric Power

BALANCE SHEET AS AT

ASSETS

**FIXED ASSETS:**

Abitibi district.....	\$ 28,730,540.76
Sudbury district.....	4,459,471.98
Nipissing district.....	1,409,990.55
Patricia district.....	4,422,237.95
Rainy River district.....	1,481,230.63
Rural power district.....	887,452.59
	\$ 41,390,924.46

Less grants-in-aid of construction:

Province of Ontario—for rural power district.....	412,901.78
	\$ 40,978,022.68

**CURRENT ASSETS:**

Employees' working funds.....	\$ 4,745.00
The Hydro-Electric Power Commission of Ontario— current account.....	2,393,599.51
Sundry accounts receivable.....	8,900.78
Power accounts receivable.....	651,348.57
Interest accrued.....	15,234.38
Consumers' deposits—securities: Bonds at par value.....	\$ 709,000.00
Stocks at market value.....	188,307.50
	897,307.50
Prepayments.....	23,299.99
	3,994,435.73

**INVENTORIES:**

Maintenance materials and supplies.....	\$ 122,471.20
Maintenance tools and equipment.....	74,862.18
	197,333.38

**DEFERRED ASSETS:**

Work in progress—deferred work orders.....	28,422.76
	150,758.06

**UNAMORTIZED DISCOUNT ON DEBENTURES:**

Investments in Province of Ontario bonds at amortized cost.....	1,597,714.39
	\$ 46,946,687.00

## COMMISSION OF ONTARIO

## PROPERTIES

Commission of Ontario in trust for the Province of Ontario

OCTOBER 31, 1944

## LIABILITIES AND RESERVES

## LONG TERM LIABILITIES (at par of exchange):

Funded debt in the hands of the public.....	\$ 20,678,800.00
Advances from the Province of Ontario for capital purposes.....	5,638,174.72
	<u>\$ 26,316,974.72</u>

## CURRENT LIABILITIES:

Power accounts—credit balances.....	\$ 2,739.03
Consumers' deposits.....	909,752.97
Debenture interest accrued.....	69,109.20
Miscellaneous accruals.....	<u>16,690.78</u>
	998,291.98

## RESERVES:

Renewals.....	\$ 4,017,885.21
Contingencies and obsolescence.....	2,812,472.50
Miscellaneous.....	<u>287,266.76</u>
	7,117,624.47

## SINKING FUND RESERVES:

Represented by:

Funded debt and provincial advances retired through sinking funds.....	\$ 10,700,136.75
Available balance.....	<u>842,307.70</u>
	11,542,444.45

SURPLUS.....	\$ 971,351.38
	<u>\$ 46,946,687.00</u>

## Auditors' Report

We have made an examination of the balance sheet of the Northern Ontario Properties held and operated by The Hydro-Electric Power Commission of Ontario in trust for the Province of Ontario, as at October 31, 1944 and of the attached statements of operations and surplus for the year ended on that date. In connection therewith we examined or tested accounting records of the Commission and made a general review of the accounting methods and of the operating and income accounts for the year, but we did not make a detailed audit of the transactions.

We report that in our opinion the foregoing balance sheet and related statements of operations and surplus, as more fully reported upon by us to the Lieutenant-Governor in Council, have been drawn up so as to exhibit a true and correct view of the state of the affairs of the Northern Ontario Properties operated by the Commission, at October 31, 1944 and the results of their operation for the year ended on that date, according to the best of our information and the explanations given us and as shown by the books.

CLARKSON, GORDON, DILWORTH & NASH,  
Chartered Accountants.

Toronto, Canada,  
July 12, 1945.

**THE HYDRO-ELECTRIC POWER  
NORTHERN ONTARIO**

**Held and Operated by The Hydro-  
in trust for the  
Statement of Operations for the**

**COST OF OPERATION**

Power purchased.....	\$ 284,429.60
Operating, maintenance and administrative expenses.....	1,051,280.26
Interest.....	1,530,658.32
Provision for renewals.....	336,180.34
Provision for contingencies and obsolescence.....	384,161.22
Provision for sinking fund.....	1,183,099.86
Total cost.....	\$4,769,809.60
Net income for year.....	230,714.65
	<u>\$5,000,524.25</u>

**COMMISSION OF ONTARIO****PROPERTIES****Electric Power Commission of Ontario****Province of Ontario****year ended October 31, 1944****REVENUE**

Power sold to private companies and customers.....	\$5,000,524.25
	<hr/> <hr/> <hr/>

**Statement of Surplus for the year ended October 31, 1944**

Balance at credit November 1, 1943.....	\$730,575.32
Net income for the year ended October 31, 1944.....	230,714.65
Transferred from reserves—net.....	12,432.61
Adjustment in year.....	\$ 2,371.20
Balance at credit October 31, 1944.....	971,351.38
	<hr/> <hr/>
	\$973,722.58
	\$973,722.58

## NORTHERN ONTARIO PROPERTIES

Held and Operated by The Hydro-Electric Power Commission of Ontario  
in trust for the Province of Ontario

Fixed Assets—October 31, 1944

Property	Under construction	Fixed Assets		Total	
		In service			
		Non-depreciable	Depreciable		
ABITIBI:		\$    c.	\$    c.	\$    c.	
Power Plants:					
Abitibi river:					
Abitibi Canyon.....	108.43	5,530,862.63	13,447,581.71	18,978,552.77	
Frederick House dam.....		168,492.34	686,031.54	854,523.88	
Dasserat Lake diversion.....		4,220.89	34,471.80	38,692.69	
	108.43	5,703,575.86	14,168,085.05	19,871,769.34	
Transformer Stations.....	6,862.37	215,856.69	2,059,428.65	2,282,147.71	
Transmission Lines.....	22,988.76	830,142.02	5,633,007.65	6,486,138.43	
Local Systems.....	3,080.40		87,404.88	90,485.28	
	33,039.96	6,749,574.57	21,947,926.23	28,730,540.76	
SUDBURY:					
Power Plants:					
Wanapitei river:					
Coniston.....		13,597.20	732,799.66	746,396.86	
McVitties.....		13,323.00	389,078.21	402,401.21	
Stinson.....		33,000.00	656,001.78	689,001.78	
Storage dam.....		25.00	194,870.00	194,895.00	
Intangible.....		830,514.53		830,514.53	
Sturgeon river:					
Crystal Falls and Storage dams.....		44,481.27	936,686.13	981,167.40	
		934,941.00	2,909,435.78	3,844,376.78	
Transformer Stations.....	30.00		157,135.08	157,165.08	
Transmission Lines.....			457,930.12	457,930.12	
	30.00	934,941.00	3,524,500.98	4,459,471.98	
NIPISSING:					
Power Plants:					
South river:					
Nipissing.....	7,118.62	11,089.60	241,924.01	260,132.23	
Bingham Chute.....		12,130.05	243,097.51	255,227.56	
Elliot Chute.....		119,307.09	334,834.33	454,141.42	
Storage dams.....			76,122.70	76,122.70	
Miscellaneous.....			1,096.64	1,096.64	
Intangible.....		69,478.34		69,478.34	
	7,118.62	212,005.08	897,075.19	1,116,198.89	
Transformer Stations.....			44,457.09	44,457.09	
Transmission Lines.....			212,520.54	212,520.54	
Local Systems.....		2,219.65	34,594.38	36,814.03	
	7,118.62	214,224.73	1,188,647.20	1,409,990.55	

## NORTHERN ONTARIO PROPERTIES

Held and Operated by The Hydro-Electric Power Commission of Ontario  
in trust for the Province of Ontario

Fixed Assets—October 31, 1944

Property	Under construction	Fixed Assets		Total	
		In service			
		Non-depreciable	Depreciable		
PATRICIA:					
Power Plants:	\$ c.	\$ c.	\$ c.	\$ c.	
English river:					
Ear Falls.....		566.75	1,813,679.87	1,814,246.62	
Albany river:					
Rat Rapids.....		39,297.44	554,807.60	594,105.04	
		39,864.19	2,368,487.47	2,408,351.66	
Transformer Stations.....			166,572.81	166,572.81	
Transmission Lines.....	440.63		1,798,004.00	1,798,004.00	
Local Systems.....			48,868.85	49,309.48	
	440.63	39,864.19	4,381,933.13	4,422,237.95	
RAINY RIVER:					
Transformer Stations.....	2,258.22		128,148.22	130,406.44	
Transmission Lines.....	57,750.21	238,900.39	1,037,732.84	1,334,383.44	
Local System.....	16,440.75			16,440.75	
	76,449.18	238,900.39	1,165,881.06	1,481,230.63	
NORTHERN ONTARIO PROPERTIES RURAL POWER DISTRICT:					
Transformer Stations.....			10,820.23	10,820.23	
H.E.P.C. investment.....	44,629.03		419,101.55	463,730.58	
Government grants.....			412,901.78	412,901.78	
	44,629.03		842,823.56	887,452.59	

## SUMMARY

Property	Under construction	Fixed Assets		Total	
		In service			
		Non-depreciable	Depreciable		
Abitibi district.....	\$ c.	\$ c.	\$ c.	\$ c.	
	33,039.96	6,749,574.57	21,947,926.23	28,730,540.76	
Sudbury district.....	30.00	934,941.00	3,524,500.98	4,459,471.98	
Nipissing district.....	7,118.62	214,224.73	1,188,647.20	1,409,990.55	
Patricia district.....	440.63	39,864.19	4,381,933.13	4,422,237.95	
Rainy river district.....	76,449.18	238,900.39	1,165,881.06	1,481,230.63	
Rural power district.....	44,629.03		842,823.56	887,452.59	
	161,707.42	8,177,504.88	33,051,712.16	41,390,924.46	
Less Grants-in-aid of construction: Province of Ontario for rural power district.....			412,901.78	412,901.78	
	161,707.42	8,177,504.88	32,638,810.38	40,978,022.68	

## NORTHERN ONTARIO

## STATEMENT SHOWING CHANGES IN FIXED ASSETS

Class of Asset	Balance at beginning of year	Expenditure during year
<b>POWER PLANTS:</b>		
Abitibi district.....	\$ 19,921,932.54	383.68
Sudbury district.....	3,845,176.78	.....
Nipissing district.....	1,109,092.00	7,106.89
Patricia district.....	2,408,244.03	177.63
	27,284,445.35	7,668.20
<b>TRANSFORMER STATIONS:</b>		
Abitibi district.....	2,272,890.79	12,698.18
Sudbury district.....	157,135.08	30.00
Nipissing district.....	44,361.80	95.29
Patricia district.....	162,016.14	4,556.67
Rainy River district.....	66,167.60	64,238.84
	2,702,571.41	81,618.98
<b>TRANSMISSION LINES:</b>		
Abitibi district.....	6,475,196.86	11,641.57
Sudbury district.....	458,562.50	1.00
Nipissing district.....	212,520.54	.....
Patricia district.....	1,797,685.35	836.51
Rainy River district.....	971,301.68	363,081.76
	9,915,266.93	375,560.84
<b>LOCAL SYSTEMS:</b>		
Abitibi district.....	87,537.14	3,012.14
Nipissing district.....	36,627.92	190.11
Patricia district.....	48,375.00	988.48
Rainy River district.....	.....	16,440.75
	172,540.06	20,631.48
<b>Sub-total.....</b>	<b>40,074,823.75</b>	<b>485,479.50</b>
<b>RURAL POWER DISTRICT:</b>		
Transformer station.....	10,820.23	.....
H-E.P.C. investment.....	402,949.99	61,167.25
Government grants.....	396,788.19	16,500.25
	810,558.41	77,667.50
	40,885,382.16	563,147.00
<b>Less Grants in aid of construction:</b>		
Province of Ontario for rural power districts.	396,788.19	16,113.59
	40,488,593.97	547,033.41

## PROPERTIES

DURING YEAR ENDED OCTOBER 31, 1944

Adjustment for equipment re-located	Retirements		Balance at end of year
	Values recovered (stores, sales and salvage)	Charged to reserves for renewals, contingencies and operation*	
\$   c.	\$   c.	\$   c.	\$   c.
.....	546.88	50,000.00	19,871,769.34
.....	.....	800.00	3,844,376.78
.....	.....	.....	1,116,198.89
.....	.....	70.00	2,408,351.66
.....	546.88	50,870.00	27,240,696.67
.....	677.78	2,763.48	2,282,147.71
.....	.....	.....	157,165.08
.....	.....	.....	44,457.09
.....	.....	.....	166,572.81
.....	.....	.....	130,406.44
.....	677.78	2,763.48	2,780,749.13
.....	.....	.....	.....
154.00	.....	700.00	6,486,138.43
.....	.....	479.38	457,930.12
.....	.....	.....	212,520.54
.....	2.26	515.60	1,798,004.00
.....	.....	.....	1,334,383.44
154.00	2.26	1,694.98	10,288,976.53
.....	.....	.....	.....
.....	.....	64.00	90,485.28
.....	.....	4.00	36,814.03
.....	.....	54.00	49,309.48
.....	.....	.....	16,440.75
.....	.....	122.00	193,049.54
154.00	1,226.92	55,450.46	40,503,471.87
.....	.....	.....	10,820.23
77.00	.....	463.66	463,730.58
77.00	.....	463.66	412,901.78
154.00	.....	927.32*	887,452.59
.....	1,226.92	56,377.78	41,390,924.46
.....	.....	.....	412,901.78
.....	1,226.92	56,377.78	40,978,022.68

### NORTHERN ONTARIO PROPERTIES

**Embracing the Abitibi, Sudbury, Nipissing, Patricia, Rainy River Districts  
and Northern Rural Power District**

**Held and Operated by The Hydro-Electric Power Commission of Ontario  
in trust for the Province of Ontario**

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#### **Renewals Reserve—October 31, 1944**

Balance at November 1, 1943.....	\$3,547,626.69
Provision in the year.....	\$336,180.34
Interest at 4% on reserve balance.....	141,905.06
	478,085.40
Expenditures in the year.....	\$4,025,712.09
	7,826.88
Balance at October 31, 1944.....	\$4,017,885.21

#### **Contingencies and Obsolescence Reserve—October 31, 1944**

Balance at November 1, 1943.....	\$2,472,792.37
Provision in the year.....	\$384,161.22
Interest at 4% on reserve balance.....	98,911.70
	483,072.92
Contingencies met with during the year.....	\$2,955,865.29
	143,392.79
Balance at October 31, 1944.....	\$2,812,472.50

#### **Sinking Fund Reserve—October 31, 1944**

Balance at November 1, 1943.....	\$9,960,908.26
Provision in the year.....	\$1,183,099.86
Interest at 4% on reserve balance.....	398,436.33
	1,581,536.19
Balance at October 31, 1944.....	\$11,542,444.45

**THE HAMILTON STREET RAILWAY COMPANY**

(A wholly-owned Subsidiary of The Hydro-Electric Power Commission  
of Ontario—Southern Ontario System)

**FINANCIAL ACCOUNTS**

For the year ended October 31, 1944

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Balance Sheet as at October 31, 1944

Operating Statement for the year ended October 31, 1944

## THE HAMILTON STREET

(A Wholly-Owned Subsidiary of The Hydro-Electric

BALANCE SHEET AS AT

## ASSETS

## FIXED ASSETS:

Properties, road and equipment, buses, franchises, etc.....	\$4,546,249.02
---	----------------

## CURRENT ASSETS:

The Hydro-Electric Power Commission of Ontario—	
current account.....	\$791,809.51
Conductors' and employees' advances.....	20,800.00
Accounts receivable.....	3,495.39
Interest accrued.....	225.00
Prepayments.....	7,205.58
	_____
	823,535.48

MATERIALS AND SUPPLIES.....	92,625.76
-----------------------------	-----------

## INSURANCE RESERVE FUND INVESTMENTS:

Investments in Province of Ontario and Dominion of Canada bonds at amortized cost.....	104,717.80
	_____
	\$5,567,128.06
	_____

**RAILWAY COMPANY****Power Commission of Ontario—Southern Ontario System)****OCTOBER 31, 1944****LIABILITIES****CAPITAL STOCK:**

Authorized—80,000 shares at a par value of \$50.00 each..	\$4,000,000.00
Issued—64,100 shares at a par value of \$50.00 each.....	\$3,205,000.00

**CURRENT LIABILITIES:**

Rentals accrued.....	1,157.00
----------------------	----------

**RESERVES:**

Depreciation—road and equipment.....	\$2,138,542.37
Insurance.....	115,611.61
Miscellaneous.....	85,617.30
	_____
	2,339,771.28
SURPLUS.....	21,199.78
	_____
	\$5,567,128.06
	_____

**Auditors' Report**

We have made an examination of the balance sheet of The Hamilton Street Railway Company as at October 31, 1944 and of the attached statements of operations and surplus for the year ended on that date. In connection therewith we examined or tested accounting records of the Company and made a general review of the accounting methods and of the operating and income accounts for the year, but we did not make a detailed audit of the transactions.

We report that in our opinion, subject to the adequacy of the accumulated reserve for depreciation, the foregoing balance sheet and related statements of operations and surplus have been drawn up so as to exhibit a true and correct view of the state of the affairs of The Hamilton Street Railway Company at October 31, 1944 and the results of its operations for the year ended on that date, according to the best of our information and the explanations given us and as shown by the books.

CLARKSON, GORDON, DILWORTH &amp; NASH,

Chartered Accountants.

Toronto, Canada,  
July 12, 1945.

## THE HAMILTON STREET RAILWAY COMPANY

(A wholly-owned subsidiary of The Hydro-Electric Power Commission  
of Ontario—Southern Ontario System)

## Statement of Operations for the year ended October 31, 1944

## REVENUES:

Transportation.....	\$2,265,122.79
Other operations.....	18,035.87
	<hr/>
	\$2,283,158.66

## EXPENSES:

Maintenance of way and structures.....	\$ 73,126.63
Maintenance of equipment.....	254,320.09
Electric power and motor fuel.....	214,401.05
Transportation expenses.....	520,567.06
General and miscellaneous expenses.....	173,833.82
Taxes (municipal and franchise).....	111,632.60
	<hr/>
Provision for depreciation.....	\$1,347,881.25
	263,298.62
	<hr/>
	\$1,611,179.87
NET REVENUE FOR YEAR ENDED OCTOBER 31, 1944.....	<hr/> <hr/> \$ 671,978.79

## Statement of Surplus for the year ended October 31, 1944

Balance at credit November 1, 1943.....	\$ 22,958.65
Net revenue for year ended October 31, 1944.....	671,978.79
	<hr/>
Less:	
Additional provision for depreciation in respect of prior years.	\$550,000.00
Dividend paid.....	123,737.66
	<hr/>
Balance at credit October 31, 1944.....	\$ 21,199.78
	<hr/>

## SECTION X

### MUNICIPAL ACCOUNTS

and

#### Statistical Data Relating to Hydro-Electric Distribution Systems Operated by Individual Municipalities Served by The Hydro-Electric Power Commission of Ontario

The Municipal Accounts section of this report presents in summary, and individually, the results of the operation of the local electrical utilities in municipalities owning their own distributing systems and operating with energy supplied by or through The Hydro-Electric Power Commission.

Financial statements prepared from the books of these Hydro utilities are submitted herein to show how each has operated during the past year, and its financial status at the present time. Other tables give useful statistical information respecting average costs for the various classes of service and the rates in force.

The books of account of the electrical utilities in all municipalities which have contracted with The Hydro-Electric Power Commission of Ontario for a supply of power are kept in accordance with an accounting system designed by the Commission.

Periodical inspections are made of the books of all Hydro electrical utilities and local officials are assisted in the improvement of their office routine with a view to standardizing, as far as possible, the methods employed. In the majority of the smaller municipalities much of the book-keeping for the electrical utilities is performed by representatives of the municipal accounting department of the Commission as a measure of economy. This arrangement insures the correct application of the standard accounting system, with resultant uniformity in classification of revenues and expenditures; secures true reflections of the actual operating results for the year, and greatly enhances the comparative values of the reports.

The first financial statement in this section presents consolidated balance sheets for the past eight years. Similar data for earlier years since 1913 were published in the Report for 1943. This consolidated statement combines the balance sheets of all local municipal Hydro utilities receiving power

under cost contracts. It is worth noting that the total plant value has increased from \$10,081,469.16 in 1913 to \$103,089,543.64 in 1944, and the total assets from \$11,907,826.86 to \$206,175,328.24. The liabilities have not increased in the same proportion as the assets, rising from \$10,468,351.79 to a maximum of \$52,685,316.86 in 1932, and receding to \$16,073,250.87 in 1944. The reasons for this are the regular fulfilment of debt retirement schedules under serial debenture provisions or by maturity of sinking funds, and also the fact that much of the cost of the increasing plant value has been financed out of reserves and surplus without increasing the capital liabilities of the respective utilities. By this procedure the funds of the systems are used to best advantage. Examination of the results will also show that there is a steady decline in the percentage of net liabilities to total assets; being from 88.0 per cent in 1913 to 7.4 per cent in 1944. The equities in The Hydro-Electric Power Commission's systems automatically acquired through the inclusion of sinking funds as part of the cost of power are not taken into account in arriving at these percentages.

The second financial statement presents consolidated operating reports for the past eight years and combines the results from all local municipal Hydro utilities receiving power under cost contracts. After providing for every cost operation and fixed charges, including the standard provision for depreciation, the combined operating reports show a net surplus of \$3,938,-375.14 for 1944. (See also diagrams in Foreword to Report.)

The five statements, "A" to "E", following the two consolidated reports show the financial status of each municipal utility and the results of operations, giving classified information respecting revenue, operating costs, number of consumers and consumption, cost of power to municipalities, power and lighting rates charged to consumers, etc. In statements "A" and "B", the municipalities are arranged alphabetically under each system; in statement "D" the municipalities are arranged in three groups—cities, towns and small municipalities; in statements "C" and "E" all municipalities are arranged alphabetically. (Statement "C" suspended, see below.)

**Statement "A"** presents the balance sheet of each electrical utility. The plant values are shown under the general subdivisions specified in the standard accounting system and the other items on the positive side of the ledger which are included in total assets are self-explanatory.

In conformity with a policy of service at cost to the customer, refunds by cash or credit are made during the year in many municipalities from surplus funds accrued to the credit of municipal services, such as street lighting, water works, sewage disposal, etc., and to individual customers. The total thus returned to customers during the year 1944 amounted in round figures to \$842,000.00.

The reserves for depreciation, and the acquired equity in The Hydro-Electric Power Commission's systems, are listed individually and totalled; and under the heading "surplus" are included not only the operating surplus but the accumulation of sinking fund applicable to debenture debt and also the amount of debentures already retired out of revenue.

The depreciation reserve now amounts to 34.9 per cent of the total depreciable plant, while the depreciation reserve and surplus combined have already reached the sum of \$114,306,932.54, being equal to 110.9 per cent of the total plant cost.

**Statement "B"** shows the detailed operating report for each municipal electrical utility. It gives annual revenues from the various classes of consumers; the items of expenditure which make up the total annual expenditure and the sums set aside for depreciation. The population served by each local utility and the number of consumers of each class are also shown.

The item "cost of power supplied by H-E.P.C." in this statement includes the debit or credit balances ascertained by the annual adjustment of the cost of power supplied to the municipalities by the Commission.\*

Of the 298 municipal electrical utilities included in this statement, 285 received from consumers revenue sufficient to meet in full all operating expenses, interest, debt retirement instalments, and standard depreciation reserve allocation and to yield an aggregate net surplus of \$3,950,864.80 for the year; 10 were able to defray out of revenue all such charges except a portion of the standard depreciation allocation aggregating \$11,102.95, in the case of 3 utilities the revenue was less than the total operating expenses, interest and debt retirement instalments by \$100.71.

**Statement "C".** Due to street lighting restrictions by the Power Controller since 1942 this statement has been omitted as it could not be used for comparative purposes.

**Statement "D"** presents statistics relating to the supply of electrical energy to consumers in Ontario municipalities served by the Commission. It shows the revenue, kilowatt-hour consumption, number of consumers, average monthly consumption, average monthly bill and the net average cost per kilowatt-hour both for domestic and for commercial light service in each municipality. For power service this statement shows the revenue, the number of consumers and the average horsepower supplied by the municipal utility.† For further reference to this informative statement, consult the special introduction to it on page 290.

**Statement "E"** presents the cost per horsepower of the power provided for and delivered to the municipalities by the Commission, and the local rates to consumers in force in the respective municipalities, during the year 1944, for domestic service, for commercial light service and for power service.

\*In 1939 and 1940 a number of municipalities asked permission to take power cost adjustments into the following year, to facilitate the earlier closing of their books. On this account, from 1941 on, with few exceptions the Balance Sheet shows the previous year's equity in Hydro Commission properties; and the Cost of Power in the Operating Statement includes the previous year's adjustments.

†The statistics include retail power only. Wholesale industrial power as supplied by the Commission direct, is reported in Section IX.

## CONSOLIDATED

YEAR.....	1937	1938	1939
Number of municipalities included.....	287	288	293
<b>ASSETS</b>			
Lands and buildings.....	\$ 10,785,473.59	\$ 10,894,019.12	\$ 11,030,623.50
Substation equipment.....	22,900,269.21	23,614,597.80	23,780,655.18
Distribution system—overhead.....	22,699,652.43	23,371,092.61	23,925,362.60
Distribution system—underground.....	6,100,282.76	6,134,283.64	6,202,371.87
Line transformers.....	10,128,591.29	10,494,789.40	10,855,346.75
Meters.....	9,234,773.90	9,539,413.66	9,838,600.98
Street lighting equipment—regular.....	2,610,137.97	2,697,047.84	2,798,171.62
Street lighting equipment—ornamental.....	1,508,564.76	1,516,059.81	1,518,035.24
Miscellaneous construction expenses.....	4,389,592.08	4,444,880.40	4,147,280.84
Steam or hydraulic plant.....	496,186.33	497,974.74	498,650.81
Old plant.....	4,878,609.01	4,897,097.67	4,894,655.59
Total plant.....	95,732,133.33	98,101,256.69	99,489,754.98
Bank and cash balance.....	3,080,864.13	3,043,609.87	3,107,087.65
Securities and investments.....	4,469,369.04	4,832,322.57	4,850,531.80
Accounts receivable.....	4,240,741.41	4,106,655.16	4,774,816.58
Inventories.....	1,336,527.60	1,393,158.18	1,496,275.62
Sinking fund on local debentures.....	10,003,873.93	10,397,958.20	11,032,594.44
Equity in H-E.P.C. systems.....	40,032,438.34	44,254,118.64	48,615,296.94
Other assets.....	186,252.23	178,534.60	156,520.39
Total assets.....	159,082,200.01	166,307,613.91	173,522,878.40
<b>LIABILITIES</b>			
Debenture balance.....	32,447,411.68	29,987,512.34	27,962,685.51
Accounts payable.....	2,912,960.24	3,334,802.82	3,100,565.26
Bank overdraft.....	34,787.51	108,753.61	180,064.81
Other liabilities.....	3,216,028.08	3,120,619.84	2,998,174.20
Total liabilities.....	38,611,187.51	36,551,688.61	34,241,489.78
<b>RESERVES</b>			
For equity in H-E.P.C. systems.....	40,032,438.34	44,254,118.64	48,615,296.94
For depreciation.....	21,034,164.68	22,583,476.69	24,046,526.92
Other reserves.....	2,802,650.84	2,814,785.08	3,090,471.34
Total reserves.....	63,869,253.86	69,652,380.41	75,752,295.20
<b>SURPLUS</b>			
Debentures paid.....	28,468,539.78	30,890,189.93	32,866,660.82
Local sinking fund.....	10,003,873.93	10,397,958.20	11,032,594.44
Operating surplus.....	18,129,344.93	18,815,396.76	19,629,838.16
Total surplus.....	56,601,758.64	60,103,544.89	63,529,093.42
Total liabilities, reserves and surplus.....	159,082,200.01	166,307,613.91	173,522,878.40
Percentage of net debt to total assets.....	25.2	22.4	19.3

## BALANCE SHEET

1940	1941	1942	1943	1944
295	296	297	298	298
\$ c.				
11,218,258.69	11,488,173.96	11,546,286.55	11,664,887.81	11,713,108.74
24,282,151.78	24,896,262.26	25,359,352.47	25,392,202.96	25,805,344.10
24,653,458.44	25,228,363.52	25,572,132.86	25,773,224.22	26,075,416.77
6,214,957.69	6,391,399.25	6,446,133.75	6,451,393.47	6,385,742.19
11,030,643.29	11,817,440.89	12,209,624.79	12,353,367.17	12,698,080.21
9,927,971.40	10,644,655.81	10,938,305.73	11,117,612.15	11,339,479.64
2,879,996.65	2,940,055.38	2,928,896.30	2,903,704.11	2,926,365.70
1,534,320.08	1,540,369.82	1,543,717.00	1,542,294.82	1,542,819.42
4,341,259.94	4,366,893.41	4,091,006.92	3,740,027.08	3,414,557.25
498,575.87	445,118.58	422,172.72	397,576.71	368,022.38
1,332,606.12	1,329,860.41	1,028,830.05	936,561.90	820,607.24
97,914,199.95	101,088,593.29	102,086,459.14	102,272,852.40	103,089,543.64
4,462,197.18	2,991,173.27	2,482,945.50	2,341,996.68	1,947,073.36
5,315,855.49	8,368,139.57	12,592,455.09	17,037,057.29	21,245,620.67
4,715,848.86	4,116,252.29	3,614,066.68	3,347,449.72	3,710,514.76
1,630,987.28	1,984,025.53	2,047,430.38	1,750,799.42	1,622,866.57
5,829,573.87	5,530,647.79	5,445,199.46	5,028,551.56	4,880,499.77
52,457,676.76	52,458,225.18	57,080,491.77	62,031,673.13	69,486,548.01
258,395.70	226,034.26	197,190.92	537 366.80	192,661.46
172,584,735.09	176,763,091.18	185,546,238.94	194,347,747.00	206,175,328.24
20,636,363.20	17,805,415.36	16,184,642.53	13,657,032.51	11,612,359.10
3,095,613.25	3,088,145.27	2,399,404.91	2,699,630.77	1,701,420.70
187,038.91	302,744.63	105,571.05	118,834.40	174,491.81
3,004,624.22	2,987,132.70	2,806,844.10	2,618,742.94	2,584,979.26
26,923,638.58	24,183,437.96	21,496,462.59	19,094,240.62	16,073,250.87
52,457,676.76	52,458,225.18	57,080,491.77	62,031,673.13	69,486,548.01
25,733,628.33	27,795,985.72	29,840,207.73	32,138,469.64	34,006,953.37
3,326,591.65	3,592,384.90	4,907,609.88	5,449,398.96	6,308,596.82
81,517,896.74	83,846,595.80	91,828,309.38	99,619,541.73	109,802,098.20
37,245,922.84	39,943,340.75	41,183,741.27	43,552,091.22	45,475,788.84
5,829,573.87	5,530,647.79	5,445,199.46	5,028,551.56	4,880,499.77
21,067,703.06	23,259,068.88	25,592,526.24	27,053,321.87	29,943,690.56
64,143,199.77	68,733,057.42	72,221,466.97	75,633,964.65	80,299,979.17
172,584,735.09	176,763,091.18	185,546,238.94	194,347,747.00	206,175,328.24
17.4	14.6	11.9	10.0	7.4

## CONSOLIDATED

YEAR.....	1937	1938	1939
Number of municipalities included.....	287	288	293
<b>EARNINGS</b>			
Domestic service.....	\$ 12,448,345.63	\$ 12,607,601.30	\$ 13,038,748.37
Commercial light service.....	6,510,685.15	6,727,374.48	7,077,144.74
Commercial power service.....	11,063,764.43	10,527,631.36	10,957,719.66
Municipal power.....	1,731,311.34	1,677,069.34	1,760,977.25
Street lighting.....	1,781,363.37	1,813,555.27	1,831,090.33
Merchandise.....	22,971.02	26,588.18	28,874.86
Miscellaneous.....	607,035.54	602,012.80	595,235.49
Total earnings.....	34,165,476.48	33,981,832.73	35,289,790.70
<b>EXPENSES</b>			
Cost of power supplied by H-E.P.C.....	20,532,736.85	20,575,457.95	21,855,595.20
Substation operation.....	490,737.94	493,651.06	516,987.25
Substation maintenance.....	300,389.49	351,013.94	377,013.25
Distribution system, operation and maintenance.....	889,990.11	921,064.94	943,859.59
Line transformer maintenance.....	81,365.18	94,040.92	95,577.72
Meter maintenance.....	343,658.47	384,357.58	386,145.71
Consumers' premises expenses.....	420,366.36	483,012.96	488,980.55
Street lighting, operation and mainten- ance.....	364,325.53	373,065.44	384,071.55
Promotion of business.....	294,574.21	309,626.97	317,467.64
Billing and collecting.....	980,540.10	987,040.66	1,008,065.66
General office, salaries and expenses.....	940,890.76	931,120.05	966,550.98
Undistributed expense.....	476,370.44	430,609.32	463,456.65
Truck operation and maintenance.....	77,995.38	84,111.05	80,263.46
Interest.....	1,752,287.58	1,642,663.25	1,594,040.32
Sinking fund and principal payments on debentures.....	2,429,565.06	2,424,098.70	2,420,441.30
Total expenses.....	30,375,793.46	30,484,934.79	31,898,516.83
Surplus.....	3,789,683.02	3,496,897.94	3,391,273.87
Depreciation and other reserves.....	2,329,625.64	2,451,529.46	2,524,364.33
Surplus less depreciation.....	1,460,057.38	1,045,368.48	866,909.54

## OPERATING REPORT

1940	1941	1942	1943	1944
195	296	297	298	298
\$ c.				
13,705,710.79	14,287,828.19	14,874,937.14	14,933,681.48	15,371,752.19
7,642,679.90	7,885,693.81	7,604,860.27	6,713,348.61	7,219,403.43
12,458,439.08	14,591,053.03	15,433,320.91	15,687,273.31	16,222,143.48
1,741,235.23	1,832,379.38	2,026,826.92	2,031,027.12	2,111,454.22
1,842,443.63	1,880,560.01	1,820,216.28	1,686,149.29	1,729,320.48
56,818.83	58,695.51	50,276.58	31,300.28	35,378.31
577,959.98	526,771.53	680,825.29	782,170.04	897,433.28
38,025,287.44	41,062,981.46	42,491,263.39	41,864,950.13	43,586,885.39
\$ c.				
23,756,863.14	26,017,260.84	26,459,900.78	26,587,877.32	26,937,460.31
544,234.10	552,820.54	581,259.02	612,227.01	611,878.05
322,375.73	316,677.27	361,643.95	370,797.74	419,983.12
930,055.53	993,886.44	1,087,818.81	1,143,720.84	1,147,646.14
101,617.16	114,304.18	133,888.95	145,094.88	145,701.29
372,562.74	409,252.72	440,877.18	443,307.27	445,437.44
568,135.41	604,642.97	513,565.10	527,810.36	513,953.14
366,911.70	379,905.55	397,614.93	380,405.50	445,945.93
293,022.17	262,910.03	193,692.33	171,894.14	156,566.54
1,020,648.93	1,074,173.90	1,171,345.63	1,226,185.63	1,264,759.35
960,065.70	1,053,367.83	1,067,535.39	1,117,334.29	1,139,174.46
555,414.26	480,317.80	553,599.71	510,448.34	522,204.17
79,848.64	93,032.89	99,379.20	94,830.33	104,222.84
1,464,381.29	1,027,985.34	973,383.83	844,161.48	707,925.20
2,389,723.60	2,248,937.42	2,006,148.29	1,871,119.81	1,564,537.45
33,725,860.10	35,629,475.72	36,041,653.10	36,047,214.94	36,127,395.43
\$ c.				
4,299,427.34	5,433,505.74	6,449,610.29	5,817,735.19	7,459,489.96
2,644,127.10	2,933,730.99	3,586,198.82	3,867,107.58	3,521,114.82
1,655,300.24	2,499,774.75	2,863,411.47	1,950,627.61	3,938,375.14

## STATEMENT

## Balance Sheets of Electrical Departments of

## SOUTHERN ONTARIO SYSTEM

Municipality.....	Acton	Agincourt	Ailsa Craig 446	Alexandria	Alliston
Population.....	1,927	P.V.		1,975	1,504
<b>ASSETS</b>					
Lands and buildings.....	\$ 1,627.38	\$ c.	\$ c.	\$ c.	\$ c.
Substation equipment.....	2,318.36			202.00	675.73
Distribution system—overhead.....	27,242.15	9,526.00	7,844.15	28,190.81	29,269.04
Distribution system—underground.....					
Line transformers.....	16,002.46	5,952.83	3,814.67	9,716.52	9,178.01
Meters.....	12,705.14	3,319.88	2,780.29	8,131.42	8,949.41
Street light equipment, regular.....	2,499.95	1,030.30	457.58	2,233.59	1,567.17
Street light equipment, ornamental.....					
Miscellaneous construction expense.....	1,628.13	23.30	492.36	5,461.23	2,454.21
Steam or hydraulic plant.....					
Old plant.....				4,466.89	7,846.49
Total plant.....	64,023.57	19,852.31	15,389.05	58,402.46	59,940.06
Bank and cash balance.....	2,243.18	1,256.21	1,988.21	1,516.29	1,837.79
Securities and investments.....	20,000.00	13,500.00	9,500.00	34,000.00	22,500.00
Accounts receivable.....	634.17	100.12	402.23	2,181.82	60.09
Inventories.....	1,234.70				18.65
Sinking fund on local debentures.....					
Equity in H-E.P.C. systems.....	92,353.89	14,760.07	19,213.45	37,083.39	30,714.51
Other assets.....	7.37			6.96	
Total assets.....	180,496.88	49,468.71	46,492.94	133,190.92	115,071.10
Deficit.....					
Total.....	180,496.88	49,468.71	46,492.94	133,190.92	115,071.10
<b>LIABILITIES</b>					
Debenture balance.....					
Accounts payable.....	144.54	438.67	80.28	2.68	99.72
Bank overdraft.....					
Other liabilities.....	1,045.49		160.00	378.14	404.00
Total liabilities.....	1,190.03	438.67	240.28	380.82	6,993.66
<b>RESERVES</b>					
For equity in H-E.P.C. systems.....	92,353.89	14,760.07	19,213.45	37,083.39	30,714.51
For depreciation.....	14,966.08	4,678.08	8,199.48	25,115.96	24,163.02
Other reserves.....	2,200.00	1,542.90		2,213.31	7,832.51
Total reserves.....	109,519.97	20,981.05	27,412.93	64,412.66	62,710.04
<b>SURPLUS</b>					
Debentures paid.....	14,500.00	8,072.65	6,883.38	48,133.84	33,510.06
Local sinking fund.....	55,286.88	19,976.34	11,956.35	20,263.60	11,857.34
Operating surplus.....					
Total surplus.....	69,786.88	28,048.99	18,839.73	68,397.44	45,367.40
Total liabilities, reserves and surplus.....	180,496.88	49,468.71	46,492.94	133,190.92	115,071.10
Percentage of net debt to total assets.....	1.4	1.3	0.9	0.4	8.3

“A”

## Hydro Municipalities as at December 31, 1944

Alvinston 648	Amherst- burg 2,709	Ancaster Twp.	Apple Hill P.V.	Arkona 368	Arnprior 4,027	Arthur 896
\$ 133.56	\$ 169.06	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
16,838.20	39,908.40	21,231.44	3,009.09	10,132.20	28,607.52	18,333.27
3,801.25	21,949.97	14,713.03	1,421.37	2,892.78	11,996.64	5,346.78
3,624.10	17,548.66	6,724.74	1,376.05	2,027.12	14,794.95	4,983.89
1,280.09	1,587.79	1,547.72	421.12	750.31	6,115.00	796.21
	5,598.72					
943.75	5,182.70	797.68	218.18	255.19	113.59	307.33
			709.55	1,030.30		1,086.62
26,620.95	91,776.24	45,014.61	7,324.42	17,087.90	61,627.70	30,854.10
2,007.59	4,346.11	2,367.90	1,156.68	32.14	25.00	
9,000.00	41,350.00	7,500.00	4,000.00	3,000.00	31,000.00	6,500.00
31.04	1,325.06	848.18	51.79	23.57	280.88	125.26
	43.30	201.68			920.62	
19,197.62	71,031.50	22,874.18	4,183.66	8,067.19	10,787.47	24,383.13
		10.68				
56,857.20	209,872.21	78,817.23	16,716.55	28,210.80	104,641.67	61,862.49
						10,309.72
56,857.20	209,872.21	78,817.23	16,716.55	28,210.80	104,641.67	72,172.21
	5,098.48	5,202.23		1,070.78	19,920.85	6,278.18
	2,045.90	1,486.09	22.75		659.38	369.12
73.00	6,749.92	248.17	26.63	28.00	2,208.17	179.09
					1,950.93	415.00
73.00	13,894.30	6,936.49	49.38	1,098.78	24,739.33	7,241.39
19,197.62	71,031.50	22,874.18	4,183.66	8,067.19	10,787.47	24,383.13
11,052.65	32,911.01	13,350.30	3,130.31	4,578.77	6,997.16	21,825.87
59.50	10,513.56	38.69			10,000.00	
30,309.77	114,456.07	36,263.17	7,313.97	12,645.96	27,784.63	46,209.00
23,529.24	26,955.12	8,908.05	6,000.00	12,042.05	35,548.28	18,721.82
2,945.19	54,566.72	26,709.52	3,353.20	2,424.01	16,569.43	
26,474.43	81,521.84	35,617.57	9,353.20	14,466.06	52,117.71	18,721.82
56,857.20	209,872.21	78,817.23	16,716.55	28,210.80	104,641.67	72,172.21
0.2	6.2	12.4	0.4	5.5	26.3	19.3

## STATEMENT

## Balance Sheets of Electrical Departments of

## SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Athens	Aurora	Aylmer	Ayr	Baden
Population.....	641	2,914	2,474	693	P.V.
<b>ASSETS</b>					
Lands and buildings.....	\$ 1,000.00	\$ 11,010.00	\$ 125.00	\$ 660.64	
Substation equipment.....	1,400.00				
Distribution system—overhead.....	14,364.26	24,576.36	27,786.89	13,158.81	9,613.54
Distribution system—underground.....					
Line transformers.....	2,401.06	23,659.30	16,633.38	5,916.92	8,647.60
Meters.....	3,338.46	14,832.99	14,036.04	4,550.25	4,492.08
Street light equipment, regular.....	698.90	6,227.00	4,303.27	1,162.14	738.66
Street light equipment, ornamental.....					
Miscellaneous construction expense.....	1,084.57	911.40	2,077.55	822.49	44.76
Steam or hydraulic plant.....					
Old plant.....			6,469.47	4,002.53	
Total plant.....	21,887.25	72,607.05	82,316.60	29,738.14	24,197.28
Bank and cash balance.....	680.63	3,068.42	4,586.91		286.59
Securities and investments.....	7,000.00	5,000.00	17,000.00	3,500.00	5,000.00
Accounts receivable.....	97.96	447.25	1,212.17	617.77	779.13
Inventories.....			260.54		
Sinking fund on local debentures.....					
Equity in H-E.P.C. systems.....	8,264.72	2,097.42	56,982.94	19,376.23	40,875.21
Other assets.....			1.56		
Total assets.....	37,930.56	83,220.14	162,360.72	53,232.14	71,138.21
Deficit.....					
Total.....	37,930.56	83,220.14	162,360.72	53,232.14	71,138.21
<b>LIABILITIES</b>					
Debenture balance.....	4,106.28		4,340.45	1,737.04	
Accounts payable.....		260.76	442.63		4.01
Bank overdraft.....		467.00	764.66	1.47	
Other liabilities.....				20.00	10.00
Total liabilities.....	4,106.28	727.76	5,547.74	1,758.51	14.01
<b>RESERVES</b>					
For equity in H-E.P.C. systems.....	8,264.72	2,097.42	56,982.94	19,376.23	40,875.21
For depreciation.....	6,827.04	36,614.48	23,667.52	8,644.85	4,412.17
Other reserves.....	206.06		6,978.99	517.29	1,000.00
Total reserves.....	15,297.82	38,711.90	87,629.45	28,538.37	46,287.38
<b>SURPLUS</b>					
Debentures paid.....	9,893.72		34,361.47	15,766.34	5,000.00
Local sinking fund.....					
Operating surplus.....	8,632.74	43,780.48	34,822.06	7,168.92	19,836.82
Total surplus.....	18,526.46	43,780.48	69,183.53	22,935.26	24,836.82
Total liabilities, reserves and surplus.....	37,930.56	83,220.14	162,360.72	53,232.14	71,138.21
Percentage of net debt to total assets.....	13.8	0.9	5.3	5.2	0.0

**"A"—Continued****Hydro Municipalities as at December 31, 1944**

Barrie	Bath	Beachville	Beamsville	Beaverton	Beeton	Belle River
10,339	293	P.V.	1,295	839	514	765
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
16,550.75		176.13		499.50		204.20
18,884.56					428.50	
73,382.21	6,624.06	15,591.07	17,320.56	24,802.09	11,947.76	20,989.41
66,582.89						
52,473.25	1,481.15	4,841.14	10,315.28	9,203.64	2,985.94	5,505.89
57,025.00	1,141.83	3,784.47	8,131.04	7,353.89	2,414.21	5,466.73
13,243.29	554.37	444.23	2,788.55	1,316.79	1,169.54	1,532.17
2,497.11	727.38	107.73		2,169.02	1,459.29	213.13
300,639.06	10,528.79	24,944.77	38,555.43	45,344.93	20,405.24	33,911.53
7,029.39	670.17	917.80	3,505.63	572.33	965.29	1,499.98
50,000.00		15,100.00	8,000.00	7,000.00	10,000.00	7,000.00
3,621.64	246.84	608.75	165.46	85.18	131.55	26.48
4,107.96						
203,300.43	2,787.52	53,168.50	7,831.52	25,941.88	19,619.16	13,818.17
23,686.73						49.94
592,385.21	14,233.32	94,739.82	58,058.04	78,944.32	51,121.24	56,306.10
592,385.21	14,233.32	94,739.82	58,058.04	78,944.32	51,121.24	56,306.10
3,761.94	3,975.55				3,460.04	
687.29		177.12	346.14	162.64	49.81	
5,608.26	100.00		708.70	572.04	95.00	225.00
10,057.49	4,075.55	177.12	1,054.84	734.68	3,604.85	225.00
203,300.43	2,787.52	53,168.50	7,831.52	25,941.88	19,619.16	13,818.17
136,752.50	2,843.67	10,412.02	8,587.25	20,139.94	12,034.64	12,628.92
35,004.40				400.00	1,590.68	1,100.00
375,097.33	5,631.19	63,580.52	16,418.77	46,481.82	33,244.48	27,547.09
61,603.74	3,524.45	5,536.66	37,500.00	15,000.00	11,539.96	8,500.00
145,626.65	1,002.13	25,445.52	3,084.43	16,727.82	2,731.95	20,034.01
207,230.39	4,526.58	30,982.18	40,584.43	31,727.82	14,271.91	28,534.01
592,385.21	14,233.32	94,739.82	58,058.04	78,944.32	51,121.24	56,306.10
2.6	35.6	0.4	2.1	1.4	11.4	0.5

## STATEMENT

## Balance Sheets of Electrical Departments of

## SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Belleville	Blenheim	Bloomfield 581	Blyth	Bolton
Population.....	14,969	1,765		632	591
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....	43,269.85	14,465.35			
Substation equipment.....	89,255.84	909.64	410.00		
Distribution system—overhead.....	137,629.63	33,941.60	11,225.83	11,906.26	10,523.76
Distribution system—underground.....					
Line transformers.....	46,937.94	13,998.32	2,125.82	2,664.45	4,759.38
Meters.....	72,438.53	11,984.94	3,349.93	2,988.55	4,251.26
Street light equipment, regular.....	23,912.87	3,859.04	1,040.99	1,554.68	873.89
Street light equipment, ornamental.....		1,482.97			
Miscellaneous construction expense.....	11,772.25	471.35	1,403.42	254.59	1,061.40
Steam or hydraulic plant.....					
Old plant.....					1,554.60
Total plant.....	425,216.91	81,113.21	19,555.99	19,368.53	23,024.29
Bank and cash balance.....	4,190.96	1,774.72	1,805.10		881.94
Securities and investments.....	56,000.00	5,000.00	9,100.00	10,000.00	12,500.00
Accounts receivable.....	12,788.72	236.64	83.21	682.96	152.62
Inventories.....	10,444.91	625.24			
Sinking fund on local debentures.....					
Equity in H-E.P.C. systems.....	231,262.06	48,691.45	8,131.87	12,861.76	22,298.39
Other assets.....					
Total assets.....	739,903.56	137,441.26	38,676.17	42,913.25	58,857.24
Deficit.....					
Total.....	739,903.56	137,441.26	38,676.17	42,913.25	58,857.24
LIABILITIES					
Debenture balance.....		959.75	2,013.90		
Accounts payable.....	16.65	1,003.17	52.07	1,058.08	69.52
Bank overdraft.....				386.81	
Other liabilities.....	12,038.12	1,852.97	144.00	180.00	156.89
Total liabilities.....	12,104.77	3,815.89	2,209.97	1,624.89	226.41
RESERVES					
For equity in H-E.P.C. systems...	231,262.06	48,691.45	8,131.87	12,861.76	22,298.39
For depreciation.....	80,338.98	28,220.40	8,469.16	7,668.31	9,623.68
Other reserves.....	17,851.30	5,014.06			
Total reserves.....	329,452.34	81,925.91	16,601.03	20,530.07	31,922.07
SURPLUS					
Debentures paid.....	176,000.00	13,040.25	9,186.10	16,032.52	12,500.00
Local sinking fund.....					
Operating surplus.....	222,346.45	38,659.21	10,679.07	4,725.77	14,208.76
Total surplus.....	398,346.45	51,699.46	19,865.17	20,758.29	26,708.76
Total liabilities, reserves and surplus.	739,903.56	137,441.26	38,676.17	42,913.25	58,957.24
Percentage of net debt to total assets.	2.4	4.7	7.2	5.4	0.6

**"A"—Continued****Hydro Municipalities as at December 31, 1944**

Bothwell 605	Bowmanville 3,800	Bradford 992	Brampton 6,146	Brantford 32,778	Brantford Twp. V.A.
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
.....	30,424.69	.....	5,665.93	115,158.48	.....
.....	894.47	388.50	35,006.39	303,639.43	.....
7,750.67	50,100.59	22,699.12	55,892.18	285,014.42	79,557.40
3,359.08	12,308.03	6,220.14	41,394.99	219,095.90	23,154.94
3,757.15	22,084.88	6,424.96	33,332.01	170,436.21	21,909.98
3,571.49	8,172.97	544.95	12,334.99	27,083.54	6,396.17
1,131.22	.....	.....	.....	37,500.00	.....
573.21	2,350.82	2,162.80	3,865.27	38,604.18	6,596.38
.....	.....	.....	.....	32,400.00	.....
20,142.82	126,336.45	38,440.47	187,491.76	1,228,932.16	137,614.87
874.29	12,450.59	841.19	1,718.32	2,631.04	320.43
15,000.00	70,000.00	12,800.00	50,700.00	193,500.00	3,280.00
36.68	3,914.88	472.61	446.36	17,518.67	735.64
.....	6,786.65	.....	117.70	12,699.08	2,376.24
21,517.13	84,694.14	23,109.67	221,033.36	1,197,569.94	47,216.01
.....	.....	90.00	20.66	.....	.....
57,570.92	304,182.71	75,753.94	461,528.16	2,652,850.89	191,543.19
57,570.92	304,182.71	75,753.94	461,528.16	2,652,850.89	191,543.19
.....	.....	.....	.....	.....	.....
342.68	.....	5,447.05	.....	.....	.....
47.70	419.94	.....	592.49	3,357.59	321.74
.....	.....	.....	888.55	9,537.72	2,531.19
1,242.17	1,772.32	647.21	1,629.00	63,181.04	1,895.01
1,632.55	2,192.26	6,094.26	3,110.04	76,076.35	4,747.94
.....	.....	.....	.....	.....	.....
21,517.13	84,694.14	23,109.67	221,033.36	1,197,569.94	47,216.01
9,519.99	21,095.12	16,476.45	84,409.74	520,747.40	37,063.32
15.13	5,500.00	2,629.88	25,200.00	47,751.39	104.82
31,052.25	111,289.26	42,216.00	330,643.10	1,766,068.73	84,384.15
.....	.....	.....	.....	.....	.....
5,191.51	71,000.00	19,752.95	69,050.64	530,000.00	57,125.66
19,694.61	119,701.19	7,690.73	58,724.38	280,705.81	45,285.44
24,886.12	190,701.19	27,443.68	127,775.02	810,705.81	102,411.10
57,570.92	304,182.71	75,753.94	461,528.16	2,652,850.89	191,543.19
1.4	1.0	11.6	1.3	2.8	3.3

## STATEMENT

## Balance Sheets of Electrical Departments of

## SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Brechin	Bridgeport	Brigden	Brighton	Brockville
Population.....	P.V.	P.V.	P.V.	1,517	10,463
<b>ASSETS</b>					
Lands and buildings.....	\$ .c.	\$ .c.	\$ .c.	\$ .c.	\$ .c.
Substation equipment.....			1,482.03	600.00	45,591.03
Distribution system—overhead.....	2,135.59	10,398.61	8,443.57	17,745.91	39,212.30
Distribution system—underground.....				880.03	101,211.42
Line transformers.....	1,495.73	3,465.60	2,492.17	6,923.54	54,080.37
Meters.....	889.42	3,361.81	2,609.54	8,447.76	55,236.43
Street light equipment, regular.....	248.55	1,635.60	509.23	1,305.85	27,520.32
Street light equipment, ornamental.....					
Miscellaneous construction expense.....	546.92	629.70	1,163.86	594.71	842.01
Steam or hydraulic plant.....					
Old plant.....					
Total plant.....:	5,316.21	19,491.32	16,700.40	36,497.80	323,693.88
Bank and cash balance.....	1,510.96	1,697.63	782.65	629.02	16,243.68
Securities and investments.....	500.00	7,000.00	7,800.00	16,000.00	105,000.00
Accounts receivable.....	51.80	235.18	28.22	2,864.10	2,252.92
Inventories.....				5,112.84	5,789.65
Sinking fund on local debentures.....					
Equity in H-E.P.C. systems.....	9,400.04	8,561.62	14,835.61	15,346.68	221,551.09
Other assets.....				51.78	433.94
Total assets.....	16,779.01	36,985.75	40,146.88	76,502.22	674,965.16
Deficit.....					
Total.....	16,779.01	36,985.75	40,146.88	76,502.22	674,965.16
<b>LIABILITIES</b>					
Debenture balance.....	643.62	3,277.81		5,183.47	
Accounts payable.....	44.41	14.56	12.16	75.55	1,221.14
Bank overdraft.....	31.85	275.00	20.00	524.39	2,252.40
Other liabilities.....					
Total liabilities.....	719.88	3,567.37	32.16	5,783.41	3,473.54
<b>RESERVES</b>					
For equity in H-E.P.C. systems.....	9,400.04	8,561.62	14,835.61	15,346.68	221,551.09
For depreciation.....	2,524.59	8,175.29	6,752.63	7,534.82	101,896.61
Other reserves.....	47.11		97.24	4,227.45	14,180.17
Total reserves.....	11,971.74	16,736.91	21,685.48	27,108.95	337,627.87
<b>SURPLUS</b>					
Debentures paid.....	2,567.30	9,090.22	8,000.00	19,816.53	226,657.54
Local sinking fund.....	1,520.09	7,591.25	10,429.24	23,793.33	107,206.21
Operating surplus.....					
Total surplus.....	4,087.39	16,681.47	18,429.24	43,609.86	333,863.75
Total liabilities, reserves and surplus.....	16,779.01	36,985.75	40,146.88	76,502.22	674,965.16
Percentage of net debt to total assets.....	9.8	12.5	0.1	9.5	0.8

"A"—Continued

Hydro Municipalities as at December 31, 1944

Brussels 776	Burford P.V.	Burgess- ville P.V.	Caledonia 1,410	Campbell- ville P.V.	Cannington 731	Cardinal 1,633
\$   c. .....	\$   c. 202.00	\$   c. .....	\$   c. 656.01	\$   c. .....	\$   c. .....	\$   c. .....
15,381.99	9,664.30	3,845.65	20,179.78	3,022.07	11,986.66	14,211.70
3,495.74	4,322.83	1,678.74	7,728.79	1,040.07	6,108.36	4,132.27
4,759.78	4,682.32	1,343.57	8,728.41	850.90	5,117.11	3,881.55
1,587.79	437.14	261.02	2,082.68	335.61	988.37	491.85
1,537.56	703.16	457.22	828.90	6.82	518.78	566.73
2,827.50					3,609.37	3,474.80
29,590.36	20,011.75	7,586.20	40,204.57	5,255.47	28,328.65	26,758.90
2,143.91	2,525.47	602.88	557.84	91.82	2,232.63	854.10
14,000.00	9,300.00	3,800.00	9,700.00	4,300.00	5,500.00	5,000.00
203.95	51.29	27.70	188.05	137.73	188.20	233.39
			1,415.91		277.93	
16,845.80	17,805.57	6,735.31	29,475.73	3,487.42	19,523.43	8,031.77
.22						
62,784.24	49,694.08	18,752.09	81,542.10	13,272.44	56,050.84	40,878.16
62,784.24	49,694.08	18,752.09	81,542.10	13,272.44	56,050.84	40,878.16
	38.00	7.31	91.53	18.21	125.27	5,509.30 140.85
100.28	107.30	15.00	314.19		65.00	5.00
100.28	145.30	22.31	405.72	18.21	190.27	5,655.15
16,845.80	17,805.57	6,735.31	29,475.73	3,487.42	19,523.43	8,031.77
11,290.17	7,208.42	4,423.19	6,990.54	1,850.71	15,225.35	3,894.73
	1,000.00				564.05	51.52
28,135.97	26,013.99	11,158.50	36,466.27	5,338.13	35,312.83	11,978.02
21,000.00	9,000.00	3,500.00	4,624.00	5,447.77	15,000.00	9,490.70
13,547.99	14,534.79	4,071.28	40,046.11	2,468.33	5,547.74	13,754.29
34,547.99	23,534.79	7,571.28	44,670.11	7,916.10	20,547.74	23,244.99
62,784.24	49,694.08	18,752.09	81,542.10	13,272.44	56,050.84	40,878.16
0.2	0.5	0.2	0.8	0.2	0.5	17.2

## STATEMENT

## Balance Sheets of Electrical Departments of

## SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Carleton Place 3,865	Cayuga 651	Chatham 17,241	Chats- worth 356	Chesley 1,601
<b>ASSETS</b>					
Lands and buildings.....	\$ 13,390.32	\$ 111,051.38	\$ 364.89	\$ 6,000.00	
Substation equipment.....	2,471.63	137,326.67			2,305.58
Distribution system—overhead.....	47,109.96	19,488.43	145,574.36	5,318.42	22,409.90
Distribution system—underground.....			88,722.56		
Line transformers.....	14,177.32	6,327.67	107,806.94	2,309.52	9,350.66
Meters.....	20,084.34	4,213.30	82,598.96	2,038.18	7,778.95
Street light equipment, regular.....	6,691.85	1,357.57	19,656.87	564.82	2,506.98
Street light equipment, ornamental.....			35,426.10		
Miscellaneous construction expense.....	3,323.29	217.95	31,137.14	439.26	3,382.00
Steam or hydraulic plant.....					
Old plant.....	5,289.19		42,752.31		
Total plant.....	112,537.90	31,604.92	802,053.29	11,035.09	53,734.07
Bank and cash balance.....	2,213.22	214.81	3,268.62	783.46	756.30
Securities and investments.....	39,500.00	5,200.00	180,000.00	2,800.00	6,000.00
Accounts receivable.....	735.48	127.66	22,566.47	8.52	35.89
Inventories.....	1,933.66	371.75	9,588.43		462.63
Sinking fund on local debentures.....					
Equity in H-E.P.C. systems.....	100,239.67	12,793.82	514,133.06	5,863.07	46,302.78
Other assets.....		1.35			
Total assets.....	257,159.93	50,314.31	1,531,609.87	20,490.14	107,291.67
Deficit.....					
Total.....	257,159.93	50,314.31	1,531,609.87	20,490.14	107,291.67
<b>LIABILITIES</b>					
Debenture balance.....	10,069.46		72,880.10		
Accounts payable.....	3,187.68	389.31	16,632.06	38.31	11.26
Bank overdraft.....					
Other liabilities.....	1,750.40	250.00	43,945.04	159.36	
Total liabilities.....	15,007.54	639.31	133,457.20	197.67	11.26
<b>RESERVES</b>					
For equity in H-E.P.C. systems.....	100,239.67	12,793.82	514,133.06	5,863.07	46,302.78
For depreciation.....	27,442.33	9,822.64	218,581.26	4,651.70	19,905.39
Other reserves.....	895.23	113.11	82,937.32		3,500.00
Total reserves.....	128,577.23	22,729.57	815,651.64	10,514.77	69,708.17
<b>SURPLUS</b>					
Debentures paid.....	55,930.54	20,000.00	297,119.90	5,400.00	27,500.00
Local sinking fund.....					
Operating surplus.....	57,644.62	6,945.43	285,381.13	4,377.70	10,072.24
Total surplus.....	113,575.16	26,945.43	582,501.03	9,777.70	37,572.24
Total liabilities, reserves and surplus.....	257,159.93	50,314.31	1,531,609.87	20,490.14	107,291.67
Percentage of net debt to total assets.....	9.5	1.7	10.0	1.4	0.0

## “A”—Continued

## Hydro Municipalities as at December 31, 1944

Chesterville 1,071	Chippawa 1,294	Clifford 456	Clinton 2,037	Cobden 595	Cobourg 5,560	Colborne 916
\$ c. 335.00	\$ c. 1,434.46	\$ c. .....	\$ c. 10,227.74	\$ c. .....	\$ c. 31,397.70	\$ c. .....
10,641.61	16,153.30	8,337.89	26,655.57	4,820.48	84,425.91	11,284.81
4,298.04	9,521.89	1,810.86	11,299.25	1,708.15	27,591.86	1,397.11
5,246.46	6,331.08	2,648.24	11,878.89	1,641.82	32,554.62	3,403.29
593.64	3,141.60	1,014.93	5,705.10	444.46	14,051.44	1,479.27
698.55	571.00	37.44	4,288.04	45.86	2,912.94	2,509.08
.....	.....	.....	.....	2,853.85	.....	.....
21,813.30	37,153.33	13,849.36	81,528.05	11,514.62	194,602.82	20,073.56
691.85	2,679.51	242.52	2,267.98	814.83	10,992.67	1,857.93
14,000.00	8,500.00	5,000.00	23,500.00	3,500.00	35,000.00	5,000.00
235.46	114.40	49.17	766.36	43.91	3,418.87	762.81
659.40	116.38	.....	3,177.47	.....	3,431.46	1,398.66
32,747.11	22,030.59	9,512.36	60,140.85	2,339.35	65,101.90	6,022.71
1.61	.76	.....	.....	.....	67.64	270.55
70,148.73	70,594.97	28,653.41	171,380.71	18,212.71	312,615.36	35,386.22
70,148.73	70,594.97	28,653.41	171,380.71	18,212.71	312,615.36	35,386.22
.....	.....	4,149.06	.....	2,111.85	51,685.66	6,497.40
.....	.....	237.76	174.09	610.68	22.98	9.00
123.00	930.00	5.00	681.45	162.50	4,996.77	292.00
123.00	930.00	4,391.82	855.54	2,885.03	56,705.41	6,798.40
32,747.11	22,030.59	9,512.36	60,140.85	2,339.35	65,101.90	6,022.71
9,166.67	7,879.21	4,551.92	26,916.05	560.54	45,761.07	4,210.03
.....	.....	.....	10,926.12	.....	1,500.00	.....
41,913.78	29,909.80	14,064.28	97,983.02	2,899.89	112,362.97	10,232.74
6,500.00	13,350.00	3,850.94	44,500.00	5,691.42	54,307.84	5,697.19
21,611.95	26,405.17	6,346.37	28,042.15	6,736.37	89,239.14	12,657.89
28,111.95	39,755.17	10,197.31	72,542.15	12,427.79	143,546.98	18,355.08
70,148.73	70,594.97	28,653.41	171,380.71	18,212.71	312,615.36	35,386.22
0.3	1.9	22.9	0.8	18.0	22.9	23.1

## STATEMENT

## Balance Sheets of Electrical Departments of

## SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Coldwater	Collingwood 6,324	Comber	Cookstown	Cottam
Population.....	549		P.V.	P.V.	P.V.
<b>ASSETS</b>					
Lands and buildings.....	\$ 275.00	\$ 15,950.08	\$ 62.00	\$ 70.00	\$ 475.63
Substation equipment.....		24,954.35		392.95	
Distribution system—overhead.....	9,981.72	60,346.05	8,018.82	10,004.12	10,931.07
Distribution system—underground.....					
Line transformers.....	6,108.01	22,910.95	5,080.42	2,892.99	2,274.24
Meters.....	3,505.38	29,010.00	3,090.48	2,709.11	2,454.94
Street light equipment, regular.....	775.02	3,289.54	423.35	919.69	366.43
Street light equipment, ornamental.....					
Miscellaneous construction expense.....	193.44	1,104.09	1,038.08	1,520.54	525.31
Steam or hydraulic plant.....					
Old plant.....					
Total plant.....	20,838.57	157,565.06	17,713.15	18,509.40	17,027.62
Bank and cash balance.....	1,366.01	6,848.74	194.56	500.32	
Securities and investments.....	3,000.00	20,000.00	9,000.00	10,500.00	6,593.65
Accounts receivable.....	844.08	390.39	21.74	786.57	44.65
Inventories.....					
Sinking fund on local debentures.....					
Equity in H-E.P.C. systems.....	18,479.74	175,621.02	23,096.75	6,985.69	5,930.21
Other assets.....					
Total assets.....	44,528.40	360,425.21	50,026.20	37,281.98	29,596.13
Deficit.....					
Total.....	44,528.40	360,425.21	50,026.20	37,281.98	29,596.13
<b>LIABILITIES</b>					
Debenture balance.....					
Accounts payable.....	632.06	250.69	23.22	1,925.47	1,390.51
Bank overdraft.....				34.03	185.65
Other liabilities.....	291.37	3,531.15	40.00	63.92	165.60
Total liabilities.....	923.43	3,781.84	63.22	2,079.50	1,805.68
<b>RESERVES</b>					
For equity in H-E.P.C. systems.....	18,479.74	175,621.02	23,096.75	6,985.69	5,930.21
For depreciation.....	12,727.12	79,800.78	8,830.15	9,961.15	6,068.48
Other reserves.....	80.00	149.77			37.95
Total reserves.....	31,286.86	255,571.57	31,926.90	16,946.84	12,036.64
<b>SURPLUS</b>					
Debentures paid.....	7,000.00	38,183.42	7,700.00	11,574.53	7,609.71
Local sinking fund.....					
Operating surplus.....	5,318.11	62,888.38	10,336.08	6,681.11	8,144.10
Total surplus.....	12,318.11	101,071.80	18,036.08	18,255.64	15,753.81
Total liabilities, reserves and surplus.....	44,528.40	360,425.21	50,026.20	37,281.98	29,596.13
Percentage of net debt to total assets.	3.5	2.0	0.2	6.9	7.6

**"A"—Continued**

**Hydro Municipalities as at December 31, 1944**

Courtright 313	Creemore 628	Dashwood P.V.	Delaware P.V.	Delhi 2,093	Deseronto 1,052	Dorchester P.V.
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
6,680.81	7,669.57	3,899.45	5,382.45	29,623.46	11,007.51	9,461.36
1,225.40	3,676.20	2,400.81	1,819.08	16,643.16	2,953.06	3,237.06
1,119.58	3,310.43	1,977.24	1,414.03	12,732.82	5,619.05	2,967.27
425.08	358.56	364.52	205.24	3,874.48	432.60	907.18
591.96	54.00	291.87	203.81	3,225.47	644.36	328.41
				28,518.74		
10,042.83	15,068.76	8,933.89	9,024.61	97,090.67	21,415.17	16,901.28
585.47	462.34	606.34	221.23	3,676.33	1,361.83	668.09
7,000.00	6,500.00	6,500.00	2,500.00	22,000.00	3,500.00	6,500.00
52.60	75.99	62.64		18.00	2,555.13	781.73
				2,817.00	655.00	79.25
7,296.48	15,114.21	10,843.06	4,410.82	9,270.12	9,567.89	9,832.80
				1.39		
24,977.38	37,221.30	26,945.93	16,156.66	134,873.51	39,055.02	34,763.15
24,977.38	37,221.30	26,945.93	16,156.66	134,873.51	39,055.02	34,763.15
		431.94		68,277.55		263.92
	200.05	117.93	40.89	195.52	187.55	
5.00	231.00			1,569.10	406.41	31.00
5.00	431.05	549.87	40.89	70,042.17	593.96	294.92
7,296.48	15,114.21	10,843.06	4,410.82	9,270.12	9,567.89	9,832.80
3,395.40	7,249.95	4,278.25	1,221.63	12,803.83	4,846.22	5,605.96
31.97	54.74		27.24	5,583.42		1,537.56
10,723.85	22,418.90	15,121.31	5,659.69	27,657.37	14,414.11	16,976.32
8,138.35	2,823.61	2,968.06	4,000.00	16,722.45	15,000.00	4,036.08
6,110.18	11,547.74	8,306.69	6,456.08	20,451.52	9,046.95	13,455.83
14,248.53	14,371.35	11,274.75	10,456.08	37,173.97	24,046.95	17,491.91
24,977.38	37,221.30	26,945.93	16,156.66	134,873.51	39,055.02	34,763.15
0.0	2.0	3.4	0.4	55.8	2.0	1.2

## STATEMENT

## Balance Sheets of Electrical Departments of

## SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Drayton	Dresden	Drumbo	Dublin	Dundalk
Population.....	523	1,519	P.V.	P.V.	705
<b>ASSETS</b>					
Lands and buildings.....	\$ 405.30				
Substation equipment.....	523.00				
Distribution system—overhead.....	10,151.31	21,475.18	4,737.26	5,924.54	8,769.11
Distribution system—underground.....					
Line transformers.....	4,425.18	9,885.89	1,801.50	1,354.25	4,345.50
Meters.....	3,709.15	8,459.51	2,156.10	1,247.37	3,545.81
Street light equipment, regular.....	772.21	1,729.55	284.27	539.86	1,203.31
Street light equipment, ornamental.....					
Miscellaneous construction expense.....	441.06	2,102.98	235.58	787.06	278.85
Steam or hydraulic plant.....					
Old plant.....					
Total plant.....	19,498.91	44,581.41	9,214.71	9,853.08	18,142.58
Bank and cash balance.....	1,113.30	1,293.85	3,061.12	1,426.37	1,746.67
Securities and investments.....	7,000.00	8,500.00	5,000.00	2,500.00	6,500.00
Accounts receivable.....	77.66	782.13	800.39	30.66	85.48
Inventories.....		1,674.92			
Sinking fund on local debentures.....					
Equity in H-E.P.C. systems.....	16,336.88	41,080.61	8,607.43	7,159.34	16,489.45
Other assets.....					
Total assets.....	44,026.75	97,912.92	26,683.65	20,969.45	42,964.18
Deficit.....					
Total.....	44,026.75	97,912.92	26,683.65	20,969.45	42,964.18
<b>LIABILITIES</b>					
Debenture balance.....	1,849.81				
Accounts payable.....	717.18	516.80			55.38
Bank overdraft.....					
Other liabilities.....		388.00		21.00	
Total liabilities.....	2,566.99	904.80		21.00	55.38
<b>RESERVES</b>					
For equity in H-E.P.C. systems.....	16,336.88	41,080.61	8,607.43	7,159.34	16,489.45
For depreciation.....	11,095.96	6,385.15	6,598.06	6,512.15	9,085.51
Other reserves.....		4,011.46			1,300.00
Total reserves.....	27,432.84	51,477.22	15,205.49	13,671.49	26,874.96
<b>SURPLUS</b>					
Debentures paid.....	7,650.19	11,423.24	4,500.00	6,200.00	5,955.96
Local sinking fund.....	6,376.73	34,107.66	6,978.16	1,076.96	10,077.88
Operating surplus.....					
Total surplus.....	14,026.92	45,530.90	11,478.16	7,276.96	16,033.84
Total liabilities, reserves and surplus.....	44,026.75	97,912.92	26,683.65	20,969.45	42,964.18
Percentage of net debt to total assets.	9.3	1.6	0.0	0.2	0.2

## "A"—Continued

## Hydro Municipalities as at December 31, 1944

Dundas 5,257	Dunnville 4,137	Durham 1,937	Dutton 776	East York Twp.	Elmira 2,176	Elmvale P.V.
\$ c. 19,401.77	\$ c. 3,495.43	\$ c. 210.28	\$ c. 75.11	\$ c. 27,444.58	\$ c. 7,488.28	\$ c. 106.25
24,198.53	39,710.85	546.02		116,298.71		2,273.07
54,939.98	41,849.07	23,832.88	10,170.67	390,185.75	37,940.69	10,035.76
					540.21	
29,572.10	24,276.50	10,090.64	4,348.03	113,846.08	24,421.33	4,144.38
27,960.76	22,005.96	8,188.52	3,584.56	184,709.56	15,802.59	4,668.52
11,535.93	9,756.04	1,545.06	754.38	34,207.69	2,303.27	447.17
1,154.52						
4,341.78	7,174.83	1,185.32	288.17	20,786.79	834.90	537.75
	10,717.62				2,168.08	
173,105.37	158,986.30	45,598.72	19,220.92	887,479.16	91,499.35	22,212.90
7,246.58	35.00	1,537.58	12.51	7,571.08	3,936.66	5,754.45
24,000.00	52,000.00	10,000.00	10,000.00	7,000.00	31,500.00	6,700.00
392.07	1,313.85	464.52	24.08	36,869.82	77.94	34.05
327.69	1,618.99	46.15		9,137.00		
181,937.64	81,603.19	39,170.95	25,262.73	376,661.31	97,807.72	18,788.31
503.39		3.06		63.57	31.50	
387,512.74	295,557.33	96,820.98	54,520.24	1,324,781.94	224,853.17	53,489.71
387,512.74	295,557.33	96,820.98	54,520.24	1,324,781.94	224,853.17	53,489.71
269.66	10,884.70			48,566.03	3,277.81	
	136.69	12.05		55,487.35	128.29	77.29
9,744.90	3,438.57					
	2,096.20	18.00	217.36	13,900.29	843.84	0.05
10,014.56	16,556.16	30.05	217.36	117,953.67	4,249.94	77.34
181,937.64	81,603.19	39,170.95	25,262.73	376,661.31	97,807.72	18,788.31
84,994.74	52,742.95	19,398.60	11,641.41	165,416.80	36,799.82	12,130.97
183.97	16,500.00		33.23	3,380.96	9,000.00	8.87
267,116.35	150,846.14	58,569.55	36,937.37	545,459.07	143,607.54	30,928.15
53,000.00	64,615.30	25,800.00	8,407.49	308,501.75	33,890.69	7,000.00
57,381.83	63,539.73	12,421.38	8,958.02	352,867.45	43,105.00	15,484.22
110,381.83	128,155.03	38,221.38	17,365.51	661,369.20	76,995.69	22,484.22
387,512.74	295,557.33	96,820.98	54,520.24	1,324,781.94	224,853.17	53,489.71
4.9	7.7	0.0	0.7	12.4	3.3	0.2

## STATEMENT

## Balance Sheets of Electrical Departments of

## SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Elmwood	Elora	Embro	Erieau	Erie Beach
Population.....	P.V.	1,167	385	*234	*22
<b>ASSETS</b>					
Lands and buildings.....		\$ 1,524.54			
Substation equipment.....					
Distribution system—overhead.....	5,194.07	18,516.53	10,825.46	11,931.11	2,605.67
Distribution system—underground.....					
Line transformers.....	1,100.67	8,373.29	5,098.62	3,449.86	925.32
Meters.....	1,381.54	7,140.69	2,393.14	3,915.61	1,069.16
Street light equipment, regular.....	653.53	1,298.49	535.73	435.74	
Street light equipment, ornamental.....					
Miscellaneous construction expense.....	1,093.62	971.88	69.45	379.90	375.03
Steam or hydraulic plant.....					
Old plant.....					
Total plant.....	9,423.43	37,825.42	18,922.40	20,112.22	4,975.18
Bank and cash balance.....	1,075.58	821.01	1,487.51	2,100.97	461.10
Securities and investments.....	4,600.00	17,500.00	3,000.00		1,500.00
Accounts receivable.....	161.19	40.69	60.67	74.79	91.22
Inventories.....		224.91			
Sinking fund on local debentures.....					
Equity in H-E.P.C. systems.....	5,381.63	46,985.33	14,297.40	8,805.64	2,140.02
Other assets.....		1.69			
Total assets.....	20,641.83	103,399.05	37,767.98	31,093.62	9,167.52
Deficit.....					
Total.....	20,641.83	103,399.05	37,767.98	31,093.62	9,167.52
<b>LIABILITIES</b>					
Debenture balance.....					527.89
Accounts payable.....	628.85	169.15	69.68	564.84	36.09
Bank overdraft.....					
Other liabilities.....	10.00	316.25	45.00	30.00	
Total liabilities.....	638.85	485.40	114.68	594.84	563.98
<b>RESERVES</b>					
For equity in H-E.P.C. systems.....	5,381.63	46,985.33	14,297.40	8,805.64	2,140.02
For depreciation.....	4,202.90	21,496.80	7,868.94	6,374.44	1,027.41
Other reserves.....			9.58	27.36	
Total reserves.....	9,584.53	68,482.13	22,175.92	15,207.44	3,167.43
<b>SURPLUS</b>					
Debentures paid.....	7,200.00	13,000.00	7,500.00	6,883.13	2,772.11
Local sinking fund.....					
Operating surplus.....	3,218.45	21,431.52	7,977.38	8,408.21	2,664.00
Total surplus.....	10,418.45	34,431.52	15,477.38	15,291.34	5,436.11
Total liabilities, reserves and surplus.....	20,641.83	103,399.05	37,767.98	31,093.62	9,167.52
Percentage of net debt to total assets.....	4.2	0.9	0.5	2.67	8.0

\*Summer Population.....

984

322

**"A"—Continued****Hydro Municipalities as at December 31, 1944**

Essex 1,959	Etobicoke Twp. V.A.	Exeter 1,627	Fergus 2,883	Finch 393	Flesherton 414	Fonthill 957
\$   c.	\$   c.	\$   c.	\$   c.	\$   c.	\$   c.	\$   c.
.....	37,100.99	8,152.85	.....	.....	408.78	.....
40,962.66	348,964.89	32,849.11	35,447.34	8,152.67	6,017.57	14,121.31
442.55	3,001.19	.....	.....	.....	.....	.....
18,361.45	118,788.28	14,513.95	24,028.81	2,486.47	3,232.45	6,399.37
13,858.95	98,020.23	10,324.12	15,525.41	2,263.54	2,533.77	6,038.73
1,655.38	17,522.89	4,902.87	6,126.75	504.07	814.94	1,801.02
7,205.06	2,689.44	.....	.....	.....	.....	.....
925.29	21,292.55	2,080.24	969.51	29.10	963.56	218.00
.....	.....	.....	2,546.59	.....	.....	3,500.00
83,411.34	647,380.46	72,823.14	84,644.41	13,435.85	13,971.07	32,078.43
2,345.38	7,220.53	2,655.22	1,700.78	46.01	587.46	1,025.80
32,000.00	27,000.00	21,500.00	32,500.00	3,500.00	9,000.00	2,000.00
765.65	23,545.42	1,608.71	180.15	140.82	107.58	70.47
.....	12,267.67	1,876.52	123.96	.....	.....	.....
41,602.70	307,136.46	54,581.84	83,982.90	5,765.33	8,193.55	8,772.04
.....	151.74	.....	34.31	.....	.....	.....
160,125.07	1,024,702.28	155,045.43	203,166.51	22,888.01	31,859.66	43,946.74
.....	.....	.....	.....	.....	.....	.....
160,125.07	1,024,702.28	155,045.43	203,166.51	22,888.01	31,859.66	43,946.74
.....	.....	.....	.....	.....	.....	.....
11,669.17	41,187.50	.....	2,622.25	1,641.31	340.73	3,089.97
162.75	38,105.59	508.13	633.28	481.11	30.19	123.90
.....	.....	.....	.....	.....	.....	.....
7,812.73	10,813.27	620.00	621.85	105.00	57.00	349.30
.....	.....	.....	.....	.....	.....	.....
19,644.65	90,106.36	1,128.13	3,877.38	2,227.42	427.92	3,563.17
.....	.....	.....	.....	.....	.....	.....
41,602.70	307,136.46	54,581.84	83,982.90	5,765.33	8,193.55	8,772.04
31,167.71	163,290.66	22,746.89	21,513.00	3,176.67	5,751.18	5,614.59
5,336.52	31,199.99	6,534.06	10,225.03	10.59	.....	.....
78,106.93	501,627.11	83,862.79	115,720.93	8,952.59	13,944.73	14,386.63
.....	.....	.....	.....	.....	.....	.....
10,830.83	224,507.90	20,000.05	39,377.75	5,358.69	6,359.27	19,410.03
51,542.66	208,460.91	50,054.46	44,190.45	6,349.31	11,127.74	6,586.91
.....	.....	.....	.....	.....	.....	.....
62,373.49	432,968.81	70,054.51	83,568.20	11,708.00	17,487.01	25,996.94
160,125.07	1,024,702.28	155,045.43	203,166.51	22,888.01	31,859.66	43,946.74
.....	.....	.....	.....	.....	.....	.....
11.2	12.2	1.1	3.3	13.0	1.8	10.1

## STATEMENT

## Balance Sheets of Electrical Departments of

## SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Forest	Forest Hill	Galt	Georgetown
Population.....	1,565	12,954	15,025	2,498
<b>ASSETS</b>				
Lands and buildings.....	\$ 6,528.31	\$ 39,501.92	\$ 202,573.39	\$ 5,041.05
Substation equipment.....		80,767.90	162,998.83	
Distribution system—overhead.....	24,067.95	199,363.44	294,037.36	38,369.23
Distribution system—underground.....		2,169.95	4,653.65	
Line transformers.....	13,457.13	114,519.03	157,183.70	28,916.76
Meters.....	12,355.37	68,120.26	87,780.90	17,978.56
Street light equipment, regular.....	2,663.94	9,478.34	72,371.89	4,598.54
Street light equipment, ornamental.....		16,795.63		
Miscellaneous construction expense.....	690.22	13,556.00	12,407.23	2,701.16
Steam or hydraulic plant.....				
Old plant.....				2,209.80
Total plant.....	59,762.92	544,272.47	994,006.95	99,815.10
Bank and cash balance.....	404.91	17,481.72	275.00	
Securities and investments.....	27,510.00	125,000.00	100,000.00	20,968.88
Accounts receivable.....	2,142.35	2,075.56	44,309.89	979.78
Inventories.....	2,145.73	6,306.16	25,720.29	
Sinking fund on local debentures.....				
Equity in H-E.P.C. systems.....	44,049.51	246,885.05	711,539.49	135,432.09
Other assets.....	1.83		1,001.68	
Total assets.....	136,017.25	942,020.96	1,876,853.30	257,195.85
Deficit.....				
Total.....	136,017.25	942,020.96	1,876,853.30	257,195.85
<b>LIABILITIES</b>				
Debenture balance.....		239,797.93		
Accounts payable.....	40.85	4,654.93	26,059.18	188.97
Bank overdraft.....			7,020.51	537.28
Other liabilities.....	195.46	28,639.65	4,790.37	2,066.11
Total liabilities.....	236.31	273,092.51	37,870.06	2,792.36
<b>RESERVES</b>				
For equity in H-E.P.C. systems.....	44,049.51	246,885.05	711,539.49	135,432.09
For depreciation.....	26,987.50	145,145.90	422,096.73	29,168.04
Other reserves.....	6,087.59	750.00	40,871.34	
Total reserves.....	77,124.60	392,780.95	1,174,507.56	164,600.13
<b>SURPLUS</b>				
Debentures paid.....	23,357.13	122,983.67	518,001.95	20,000.00
Local sinking fund.....	35,299.21	153,163.83	146,473.73	69,803.36
Operating surplus.....				
Total surplus.....	58,656.34	276,147.50	664,475.68	89,803.36
Total liabilities, reserves and surplus.....	136,017.25	942,020.96	1,876,853.30	257,195.85
Percentage of net debt to total assets...	0.3	37.8	3.3	2.3

"A"—Continued

Hydro Municipalities as at December 31, 1944

Glencoe 793	Goderich 4,922	Grand Valley 608	Granton P.V.	Gravenhurst 2,063	Grimsby 1,998	Guelph 23,195
\$ c. 3,457.66	\$ c. 13,569.89	\$ c. 36.50	\$ c. .....	\$ c. 10,072.27	\$ c. .....	\$ c. 14,720.38
.....	34,532.50	.....	.....	10,936.03	.....	167,917.81
23,663.74	73,887.68	12,359.60	4,489.45	39,905.31	39,189.10	256,933.93
.....	.....	.....	.....	1,941.77	.....	28,847.47
8,807.85	26,430.16	3,819.98	1,515.11	15,944.39	23,625.00	121,279.76
4,870.11	24,509.13	3,864.29	1,738.78	14,079.02	18,368.79	118,746.19
2,106.42	9,159.76	1,051.12	180.78	4,472.25	2,532.00	45,090.67
.....	.....	.....	.....	.....	1,925.00	.....
1,225.34	5,522.33	262.04	113.08	2,106.15	1,658.88	12,966.80
.....	14,622.15	.....	.....	.....	.....	.....
44,131.12	202,233.60	21,393.53	8,037.20	99,457.19	87,298.77	766,503.01
222.02	5,334.56	2,500.17	789.12	2,309.75	5,755.15	2,966.74
13,600.00	65,000.00	10,071.71	5,200.00	16,000.00	.....	65,000.00
67.40	779.40	33.22	8.61	585.90	75.34	5,517.95
416.48	1,127.96	.....	.....	1,649.48	118.95	20,045.80
26,196.02	158,422.10	15,283.16	10,123.33	40,114.21	3,920.78	851,873.04
.....	.76	.....	.....	.....	.....	680.00
84,633.04	432,893.38	49,281.79	24,158.26	160,116.53	97,168.99	1,712,586.54
.....	.....	.....	.....	.....	2,301.77	.....
84,633.04	432,898.38	49,281.79	24,158.26	160,116.53	99,470.76	1,712,586.54
.....	.....	.....	.....	.....	.....	.....
.....	18,518.35	.....	240.58	.....	38,706.03	.....
263.66	243.86	45.42	529.20	325.93	629.21	30,218.52
296.59	3,465.93	.....	.....	1,010.00	3,594.27	2,596.24
560.25	22,228.14	45.42	769.78	1,335.93	42,929.51	32,814.76
.....	.....	.....	.....	.....	.....	.....
26,196.02	158,422.10	15,283.16	10,123.33	40,114.21	3,920.78	851,873.04
16,688.43	113,000.25	12,009.09	4,365.45	37,146.77	5,982.50	215,640.30
1,855.34	6,819.63	1,000.00	60.00	8,072.91	.....	855.48
44,739.79	278,241.98	28,292.25	14,548.78	85,333.89	9,903.28	1,068,368.82
.....	.....	.....	.....	.....	.....	.....
20,112.88	77,569.70	11,000.00	3,259.42	63,968.41	46,637.97	145,000.00
19,220.12	54,858.56	9,944.12	5,580.28	9,478.30	.....	466,402.96
39,333.00	132,428.26	20,944.12	8,839.70	73,446.71	46,637.97	611,402.96
84,633.04	432,898.38	49,281.79	24,158.26	160,116.53	99,470.76	1,712,586.54
1.0	8.1	0.1	5.5	1.1	46.0	3.8

## STATEMENT

## Balance Sheets of Electrical Departments of

## SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Hagersville	Hamilton*	Hanover	Harriston
Population.....	1,524	174,222	3,174	1,287
<b>ASSETS</b>				
Lands and buildings.....	\$ 975,577.73	\$ 3,894.32		\$ 395.25
Substation equipment.....	864.37	2,176,769.27	9,271.19	600.00
Distribution system—overhead.....	21,657.66	1,357,775.04	51,492.35	23,011.08
Distribution system—underground.....		846,142.13		
Line transformers.....	12,013.60	990,908.26	21,881.66	9,678.75
Meters.....	10,637.52	870,781.20	18,661.13	9,750.34
Street light equipment, regular.....	1,135.27	293,898.44	2,350.30	1,332.00
Street light equipment, ornamental.....				
Miscellaneous construction expense.....	1,005.76	61,664.98	5,692.15	788.22
Steam or hydraulic plant.....				
Old plant.....				1,001.43
Total plant.....	47,314.18	7,573,517.05	113,243.10	46,557.07
Bank and cash balance.....	6,513.53	270,090.00	6,985.33	414.95
Securities and investments.....	31,000.00	725,000.00	57,568.09	9,400.00
Accounts receivable.....	71.10	649,110.15	1,544.73	568.80
Inventories.....		202,739.28	102.76	540.88
Sinking fund on local debentures.....				
Equity in H-E.P.C. systems.....	97,038.58	7,169,387.46	104,113.79	43,502.48
Other assets.....	6.98	89,599.95		
Total assets.....	181,944.37	16,679,443.89	283,557.80	100,984.18
Deficit.....				
Total.....	181,944.37	16,679,443.89	283,557.80	100,984.18
<b>LIABILITIES</b>				
Debenture balance.....		534,000.00		2,134.03
Accounts payable.....		336,728.32	7.50	20.88
Bank overdraft.....	561.99	35,123.86	949.87	90.82
Other liabilities.....				
Total liabilities.....	561.99	905,852.18	957.37	2,245.73
<b>RESERVES</b>				
For equity in H-E.P.C. systems.....	97,038.58	7,169,387.46	104,113.79	43,502.48
For depreciation.....	19,047.67	1,812,024.19	76,636.34	16,279.48
Other reserves.....	6,000.00	1,538,446.34	4,500.00	
Total reserves.....	122,086.25	10,519,857.99	185,250.13	59,781.96
<b>SURPLUS</b>				
Debentures paid.....	8,000.00	3,526,275.19	87,500.00	23,684.00
Local sinking fund.....	51,296.13	1,727,458.53	9,850.30	15,272.49
Operating surplus.....				
Total surplus.....	59,296.13	5,253,733.72	97,350.30	38,956.49
Total liabilities, reserves and surplus.....	181,944.37	16,679,443.89	283,557.80	100,984.18
Percentage of net debt to total assets.....	0.7	9.5	0.5	3.9

\*Includes 1944 power adjustment and Equity in H-E.P.C. systems.

## “A”—Continued

## Hydro Municipalities as at December 31, 1944

Harrow	Hastings	Havelock	Hensall	Hespeler	Highgate	Holstein
1,136	719	907	659	3,023	310	P.V.
\$ c. 2,318.16	\$ c. .....	\$ c. 572.90	\$ c. .....	\$ c. 4,857.00	\$ c. .....	\$ c. .....
20,793.95	17,316.09	20,064.33	12,645.26	38,946.53	33,066.91	8,348.47
11,246.32	3,530.56	2,961.87	6,811.35	31,810.81	2,324.00	1,176.04
8,603.69	3,838.79	6,058.09	4,187.26	15,177.16	2,001.63	813.31
970.46	1,283.74	1,883.33	612.83	8,160.72	453.91	170.44
194.45	633.38	4,283.37	563.89	2,658.34	491.60	188.31
.....	1,733.13	2,420.45	400.00	.....	.....	.....
44,127.03	28,335.69	38,244.34	25,220.59	134,677.47	13,619.61	4,624.22
1,595.20	296.14	818.03	719.92	1,907.06	163.46	626.59
7,200.00	7,000.00	20,000.00	13,000.00	25,000.00	5,000.00	4,500.00
193.17	109.69	20.09	8.98	384.74	17.50	3.37
129.68	.....	.....	.....	840.56	.....	.....
33,996.47	5,033.36	15,120.67	21,415.54	153,699.03	12,154.24	3,364.35
.....	.....	.....	.....	183.33	.....	.....
87,241.55	40,774.88	74,203.13	60,365.03	316,692.19	30,954.81	13,118.53
87,241.55	40,774.88	74,203.13	60,365.03	316,692.19	30,954.81	13,118.53
.....	.....	.....	.....	.....	.....	.....
678.86	9,986.48 0.05	0.39	1,270.10 700.83	10,182.17 2,700.16	17.90	500.00
290.71	311.91	.....	60.00	770.00	75.00	.....
969.57	10,298.44	0.39	2,030.93	13,652.33	92.90	500.00
.....	.....	.....	.....	.....	.....	.....
33,996.47	5,033.36	15,120.67	21,415.54	153,699.03	12,154.24	3,364.35
12,928.53	7,048.94	15,649.94	12,247.77	30,425.37	7,034.32	2,345.88
136.30	.....	.....	.....	154.46	.....	.....
47,061.30	12,082.30	30,770.61	33,663.31	184,278.86	19,188.56	5,710.23
.....	.....	.....	.....	.....	.....	.....
12,000.00	11,013.52	32,900.00	10,729.90	67,388.34	5,000.00	2,762.05
27,210.68	7,380.62	10,532.13	13,940.89	51,372.66	6,673.35	4,146.25
39,210.68	18,394.14	43,432.13	24,670.79	118,761.00	11,673.35	6,908.30
87,241.55	40,774.88	74,203.13	60,365.03	316,692.19	30,954.81	13,118.53
1.8	28.5	0.0	5.2	8.4	0.5	5.1

## STATEMENT

## Balance Sheets of Electrical Departments of

## SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Humber-stone 3,220	Huntsville	Ingersoll	Iroquois	Jarvis
Population.....	3,220	2,849	5,810	1,037	539
<b>ASSETS</b>					
Lands and buildings.....		\$ 353.52	\$ 16,291.49		
Substation equipment.....		647.30	51,488.29	100.00	
Distribution system—overhead.....	24,889.33	23,277.67	59,180.97	8,863.22	10,080.96
Distribution system—underground.....					
Line transformers.....	15,383.14	14,443.88	43,075.05	3,397.83	3,422.06
Meters.....	11,983.11	14,506.30	31,967.32	4,443.54	3,183.75
Street light equipment, regular.....	963.79	7,621.74	4,988.75	565.84	931.82
Street light equipment, ornamental.....			4,597.59		
Miscellaneous construction expense.....	3,305.20	1,252.84	7,929.39	325.63	66.60
Steam or hydraulic plant.....					
Old plant.....		5,156.20		575.00	
Total plant.....	56,524.57	67,259.45	219,518.85	18,271.06	17,685.19
Bank and cash balance.....	88.51	1,688.92	6,905.25	662.18	1,198.17
Securities and investments.....	26,000.00	5,000.00	11,558.43	3,500.00	15,000.00
Accounts receivable.....	180.94	1,992.87	211.26	2,142.80	62.11
Inventories.....		4,770.30	1,230.06	206.73	
Sinking fund on local debentures.....					
Equity in H-E.P.C. systems.....	28,462.33	77,025.54	237,499.11	1,870.76	19,587.97
Other assets.....			173.58	18.52	
Total assets.....	111,256.35	157,737.08	477,096.54	26,672.05	53,533.44
Deficit.....					
Total.....	111,256.35	157,737.08	477,096.54	26,672.05	53,533.44
<b>LIABILITIES</b>					
Debenture balance.....					
Accounts payable.....	374.20	373.76	14,854.69	1.92	29.02
Bank overdraft.....					
Other liabilities.....	1,949.05	1,179.42	7,546.44	228.31	
Total liabilities.....	2,323.25	1,553.18	22,401.13	230.23	29.02
<b>RESERVES</b>					
For equity in H-E.P.C. systems.....	28,462.33	77,025.54	237,499.11	1,870.76	19,587.97
For depreciation.....	10,089.33	19,476.83	33,092.83	4,135.03	7,413.84
Other reserves.....	6,000.00	383.13	4,384.52	2,000.00	
Total reserves.....	44,551.66	96,885.50	274,976.46	8,005.79	27,001.81
<b>SURPLUS</b>					
Debentures paid.....	32,000.00	21,133.54	79,800.00		10,500.00
Local sinking fund.....	32,381.44	38,164.86	99,918.95	18,436.03	16,002.61
Operating surplus.....					
Total surplus.....	64,381.44	59,298.40	179,718.95	18,436.03	26,502.61
Total liabilities, reserves and surplus.....	111,256.35	157,737.08	477,096.54	26,672.05	53,533.44
Percentage of net debt to total assets.....	2.8	1.9	7.6	0.9	0.08

**"A"—Continued**

**Hydro Municipalities as at December 31, 1944**

Kemptville 1,140	Kincardine 2,134	Kingston 30,569	Kingsville 2,290	Kirkfield P.V.	Kitchener 35,745
\$ c. 4,520.39	\$ c. 6,531.80	\$ c. 258,302.72	\$ c. 8,592.27	\$ c. .....	\$ c. 252,539.21
21,001.09	2,794.20	280,667.65	.....	.....	416,170.95
	44,336.11	243,889.73	35,438.04	5,179.43	430,920.52
		195,585.91	.....	.....	44,132.49
6,843.41	14,763.37	100,734.24	17,176.18	757.90	276,374.46
8,322.36	13,178.85	146,095.49	16,743.83	804.97	258,186.39
1,090.07	6,076.00	79,004.11	1,470.29	379.00	79,515.41
			19,200.00	.....	126,922.86
5,651.62	4,935.51	42,993.51	66.94	234.11	16,739.10
		17,665.40	.....	.....	52,363.91
47,428.94	92,615.84	1,364,938.76	98,687.55	7,355.41	1,953,865.30
1,257.17	3,616.58	2,969.02	665.16	287.80	33,035.80
15,000.00	26,000.00	426,175.00	32,500.00	2,200.00	100,000.00
2,183.17	86.45	47,343.30	97.74	30.50	103,233.39
1,296.67	1,044.67	14,957.72	112.90	.....	35,999.00
26,132.59	55,547.22	149,180.92	53,319.07	4,025.33	1,697,171.06
		75.01	.....	.....	178.97
93,298.54	178,910.76	2,005,639.73	185,382.42	13,899.04	3,923,483.52
				841.54	.....
93,298.54	178,910.76	2,005,639.73	185,382.42	14,740.58	3,923,483.52
				.....	.....
		13,356.00	17,912.57	.....	142,900.00
132.51	89.29	35,082.25	168.49	.....	69,991.04
193.39	459.00	20,694.68	22,114.75	.....	129,464.66
325.90	548.29	69,132.93	40,195.81	.....	342,355.70
26,132.59	55,547.22	149,180.92	53,319.07	4,025.33	1,697,171.06
16,112.92	40,743.28	405,819.61	36,015.48	4,515.25	538,471.24
	7,562.37	296,018.73	3,888.66	200.00	7,166.74
42,245.51	103,852.87	851,019.26	93,223.21	8,740.58	2,242,809.04
25,000.00	64,200.00	298,544.00	15,587.43	6,000.00	594,250.00
25,727.13	10,309.60	786,943.54	36,375.97	.....	744,068.78
50,727.13	74,509.60	1,085,487.54	51,963.40	6,000.00	1,338,318.78
93,298.54	178,910.76	2,005,639.73	185,382.42	14,740.58	3,923,483.52
0.5	0.4	3.7	18.6	0.0	10.3

## STATEMENT

## Balance Sheets of Electrical Departments of

## SOUTHERN ONTARIO SYSTEM—Continued

Municipality . . . . .	Lakefield	Lambeth	Lanark	Lancaster	La Salle
Population . . . . .	1,314	P.V.	692	573	1,020
<b>ASSETS</b>					
Lands and buildings . . . . .	\$ 3,137.97	\$ c.	\$ c.	\$ c.	\$ c. 1,210.68
Substation equipment . . . . .					
Distribution system—overhead . . .	25,062.16	9,436.32	6,994.64	8,789.65	22,850.12
Distribution system—underground . . .					
Line transformers . . . . .	6,992.86	2,965.87	2,042.71	1,922.25	6,775.22
Meters . . . . .	7,943.63	2,880.35	2,534.98	1,983.22	5,488.34
Street light equipment, regular . . . .	1,896.05	1,053.80	747.54	650.65	1,054.22
Street light equipment, ornamental . . . .					
Miscellaneous construction expense . . . .	3,722.16	315.71		1,068.55	1,609.47
Steam or hydraulic plant . . . . .					
Old plant . . . . .	3,445.25				
Total plant . . . . .	52,200.08	16,652.05	12,319.87	14,414.32	38,988.05
Bank and cash balance . . . . .	1,979.44		3,218.38	746.28	1,532.51
Securities and investments . . . . .	17,000.00	4,500.00	5,500.00	1,500.00	5,000.00
Accounts receivable . . . . .	168.06	210.14		46.64	373.13
Inventories . . . . .					13.10
Sinking fund on local debentures . . . .					
Equity in H-E.P.C. systems . . . . .	16,865.41	12,491.91	7,799.81	7,548.11	18,388.02
Other assets . . . . .					
Total assets . . . . .	88,212.99	33,854.10	28,838.06	24,255.35	64,294.81
Deficit . . . . .					
Total . . . . .	88,212.99	33,854.10	28,838.06	24,255.35	64,294.81
<b>LIABILITIES</b>					
Debenture balance . . . . .	12,418.94				
Accounts payable . . . . .		55.99	39.50	39.88	103.38
Bank overdraft . . . . .		373.42			
Other liabilities . . . . .	649.53	200.00	135.00	163.61	1,052.40
Total liabilities . . . . .	13,068.47	629.41	174.50	203.49	1,155.78
<b>RESERVES</b>					
For equity in H-E.P.C. systems . . . .	16,865.41	12,491.91	7,799.81	7,548.11	18,388.02
For depreciation . . . . .	18,061.19	7,181.37	4,590.73	3,373.68	15,585.94
Other reserves . . . . .		1,218.59			207.00
Total reserves . . . . .	34,926.60	20,891.87	12,390.54	10,921.79	34,180.96
<b>SURPLUS</b>					
Debentures paid . . . . .	21,081.06	4,000.00	7,316.57	9,970.42	15,500.00
Local sinking fund . . . . .					
Operating surplus . . . . .	19,136.86	8,332.82	8,956.45	3,159.65	13,458.07
Total surplus . . . . .	40,217.92	12,332.82	16,273.02	13,130.07	28,958.07
Total liabilities, reserves and surplus .	88,212.99	33,854.10	28,838.06	24,255.35	64,294.81
Percentage of net debt to total assets .	18.3	2.9	0.8	1.2	2.5

**"A"—Continued****Hydro Municipalities as at December 31, 1944**

Leamington 5,619	Lindsay 7,783	Listowel 2,993	London 81,158	London Twp. V.A.	Long Branch 5,320	Lucan 607
\$ c. 18,580.07	\$ c. 10,777.68	\$ c. 1,459.49	\$ c. 456,073.40	\$ c. 1,019,822.85	\$ c. 24,026.02	\$ c. 375.45
7,101.97	3,176.56		832,820.16	410,292.71	62,132.56	11,799.78
62,260.63	104,934.67	49,960.18	5,522.87	436,092.54	9,236.05	18,776.16
17,209.04				417,489.68	6,789.75	4,626.28
28,351.87	30,803.13	25,013.43		73,236.72	1,842.71	23,862.56
31,359.12	36,831.58	18,957.91				4,293.30
1,574.66	10,784.73	3,181.88				4,549.30
14,478.49		1,539.79				
1,571.11	1,959.96	1,835.24				515.85
		4,745.30				2,860.45
182,486.96	199,268.31	112,216.09	3,888,350.62	45,488.82	112,055.66	29,020.41
3,556.98	16,010.81	448.40	3,267.51	5,183.59	614.83	1,659.84
59,500.00	69,317.22	23,000.00	1,000,000.00		18,000.00	9,500.00
493.65	400.23	254.77	170,086.75	332.62	27,794.79	2.07
3,219.97	184.42	154.79	67,394.43			
			185,563.50			
116,613.63	130,904.28	101,869.31	3,125,317.23	28,047.48	38,591.71	23,002.21
84.66		24.93	3,080.65			
365,955.85	416,085.27	237,968.29	8,443,060.69	79,052.51	197,056.99	63,184.53
365,955.85	416,085.27	237,968.29	8,443,060.69	79,052.51	197,056.99	63,184.53
36,989.75			79,546.21	1,201.76	2,814.91	464.58
489.29		27.40	95,029.01	1,414.39	3,923.62	0.04
		2,907.65				
17,828.84	3,188.47	1,988.19	99,983.19	655.24	2,614.83	259.24
18,318.13	40,178.22	4,923.24	274,558.41	3,271.39	9,353.36	723.86
116,613.63	130,904.28	101,869.31	3,125,317.23	28,047.48	38,591.71	23,002.21
53,340.98	59,980.75	57,872.99	1,731,556.25	13,888.42	29,597.20	10,795.38
17,630.44		2,500.00	390,045.95	3.82	16,258.01	
187,585.05	190,885.03	162,242.30	5,246,919.43	41,939.72	84,446.92	33,797.59
48,000.00	93,010.25	43,189.89	1,502,353.79	17,798.24	37,489.69	10,749.04
112,052.67	92,011.77	27,612.86	185,563.50		16,043.16	65,767.02
160,052.67	185,022.02	70,802.75	1,233,665.56		103,256.71	28,663.08
365,955.85	416,085.27	237,968.29	8,443,060.69	79,052.51	197,056.99	63,184.53
1.6	14.0	2.5	0.0	6.4	5.9	1.8

## STATEMENT

## Balance Sheets of Electrical Departments of

## SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Lucknow	Lynden	Madoc	Markdale	Markham
Population.....	907	P.V.	1,106	771	1,162
<b>ASSETS</b>					
Lands and buildings.....	\$ 241.18	\$ 100.00			
Substation equipment.....			780.80		
Distribution system—overhead.....	21,527.56	4,869.69	11,995.12	11,471.81	20,000.84
Distribution system—underground.....					
Line transformers.....	10,558.06	3,136.23	3,761.56	5,942.80	10,303.45
Meters.....	6,046.73	2,350.88	5,495.50	4,933.93	8,558.50
Street light equipment, regular.....	1,509.55	365.21	1,577.14	1,390.15	833.91
Street light equipment, ornamental.....					
Miscellaneous construction expense.....	2,211.92	213.57	27.37	601.13	1,279.72
Steam or hydraulic plant.....					
Old plant.....				2,080.65	
Total plant.....	41,853.82	11,176.76	22,956.69	27,201.27	40,976.42
Bank and cash balance.....	4,375.39	657.80	2,775.03	661.09	592.74
Securities and investments.....	4,500.00	4,000.00	10,000.00	11,155.13	16,000.00
Accounts receivable.....	400.49	70.93	325.81	57.81	135.07
Inventories.....					
Sinking fund on local debentures.....					
Equity in H-E.P.C. systems.....	25,910.58	16,201.40	10,445.78	13,265.06	25,287.78
Other assets.....					
Total assets.....	77,040.28	32,106.89	46,503.31	52,340.36	82,992.01
Deficit.....					
Total.....	77,040.28	32,106.89	46,503.31	52,340.36	82,992.01
<b>LIABILITIES</b>					
Debenture balance.....		293.49		616.83	
Accounts payable.....	1,579.93		2.81	132.11	
Bank overdraft.....	10.00	18.00	467.00	127.00	320.00
Other liabilities.....					
Total liabilities.....	1,589.93	311.49	469.81	875.94	320.00
<b>RESERVES</b>					
For equity in H-E.P.C. systems...	25,910.58	16,201.40	10,445.78	13,265.06	25,287.78
For depreciation.....	6,079.43	4,686.97	2,904.40	10,895.27	10,188.40
Other reserves.....	6,750.00			1,000.00	3,032.39
Total reserves.....	38,840.01	20,888.37	13,350.18	25,160.33	38,508.57
<b>SURPLUS</b>					
Debentures paid.....	19,713.16	4,201.51	14,000.00	8,383.17	11,373.63
Local sinking fund.....	16,897.18	6,705.52	18,683.32	17,920.92	32,789.81
Operating surplus.....					
Total surplus.....	36,610.34	10,907.03	32,683.32	26,304.09	44,163.44
Total liabilities, reserves and surplus.	77,040.28	32,106.89	46,503.31	52,340.36	82,992.01
Percentage of net debt to total assets.	3.1	2.0	1.3	2.2	0.6

**"A"—Continued****Hydro Municipalities as at December 31, 1944**

Marmora 933	Martintown P.V.	Maxville 802	Meadford 2,676	Merlin P.V.	Merriton 3,189	Midland 6,579	
\$ c. 126.15	\$ c. 407.79	\$ c. 3,849.47	\$ c. 1,144.18	\$ c. 9,715.69	\$ c. 5,015.61	\$ c. 6,764.41	\$ c. 19,983.57
14,111.54	2,840.45	12,008.56	33,785.72	9,515.95	43,117.86	100,216.50	
3,808.11	759.39	2,391.79	9,715.69	5,015.61	14,490.90	30,980.86	
4,042.21	1,124.15	3,239.63	10,777.58	2,756.95	18,357.47	43,345.87	
1,193.23	354.94	1,950.24	3,647.93	570.46	5,045.02	19,322.71	
2,324.80	690.21	2,420.28	2,187.47	472.06	1,631.90	1,354.61	
573.62							
26,053.51	5,895.29	22,418.29	65,108.04	18,331.03	186,103.50	300,519.32	
1,837.52	879.93	147.65	3,761.87	458.21	8,462.36	5,028.56	
7,000.00	3,000.00	8,500.00	18,000.00	14,700.00	42,000.00	47,500.00	
205.95	174.92	201.66	114.87	5.14	257.97	3,292.07	
150.00			29.78	30.00	1,103.34	4,424.09	
7,378.78	2,640.42	11,935.08 1.77	39,920.88 11.14	14,465.14	235,562.40 111.67	279,611.29 587.36	
42,625.76	12,590.56	43,204.45	126,946.58	47,989.52	473,601.24	640,962.69	
42,625.76	12,590.56	43,204.45	126,946.58	47,989.52	473,601.24	640,962.69	
		286.60	135.04	681.15	124.76	834.89	
240.00	5.00	157.00	1,128.26	95.00	348.20	1,485.92	
240.00	5.00	443.60	1,263.30	776.15	472.96	2,320.81	
7,378.78	2,640.42	11,935.08	39,920.88	14,465.14	235,562.40	279,611.29	
7,105.33	2,667.03	7,670.81	21,005.16	5,990.64	39,648.68	225,900.09	
	81.02	361.56	46.65	23.40	27,000.00	1,329.51	
14,484.11	5,388.47	19,967.45	60,972.69	20,479.18	302,211.08	506,840.89	
17,666.11	6,000.00	16,000.00	49,360.20	13,122.36	32,186.21	111,944.99	
10,235.54	1,197.09	6,793.40	15,350.39	13,611.83	138,730.99	19,856.00	
27,901.65	7,197.09	22,793.40	64,710.59	26,734.19	170,917.20	131,800.99	
42,625.76	12,590.56	43,204.45	126,946.58	47,989.52	473,601.24	640,962.69	
0.7	0.1	1.4	1.5	2.3	0.2	0.6	

## STATEMENT

## Balance Sheets of Electrical Departments of

## SOUTHERN ONTARIO SYSTEM—Continued

Municipality . . . . .	Mildmay	Millbrook	Milton	Milverton	Mimico
Population . . . . .	737	734	1,953	982	8,075
<b>ASSETS</b>					
Lands and buildings . . . . .	\$    c.	\$    c.	\$    c.	\$    c.	\$    c.
Substation equipment . . . . .			13,864.88	761.88	20,455.40
Distribution system—overhead . . . . .	6,338.71	6,908.39	16,418.16		43,269.83
Distribution system—underground . . . . .			24,106.41	12,936.25	85,521.26
Line transformers . . . . .	2,142.31	1,667.48	15,929.69	11,583.29	44,838.25
Meters . . . . .	3,327.03	2,050.23	16,442.73	5,790.05	37,247.61
Street light equipment, regular . . . . .	577.24	595.65	5,428.28	848.75	10,167.55
Street light equipment, ornamental . . . . .					
Miscellaneous construction expense . . . . .	894.34	79.92	3,279.55	599.27	6,333.27
Steam or hydraulic plant . . . . .					
Old plant . . . . .	849.00				
Total plant . . . . .	14,128.63	11,301.67	95,469.70	32,519.49	247,833.17
Bank and cash balance . . . . .	731.95	1,740.04	1,070.76	5.37	6,671.20
Securities and investments . . . . .	9,000.00	1,000.00	33,000.00	6,500.00	34,000.00
Accounts receivable . . . . .		181.77	749.55	534.78	2,107.18
Inventories . . . . .			3,690.03		
Sinking fund on local debentures . . . . .					
Equity in H-E.P.C. systems . . . . .	4,824.30	1,262.72	126,939.71	52,454.37	180,963.90
Other assets . . . . .			24.57	9.10	273.34
Total assets . . . . .	28,684.88	15,486.20	260,944.32	92,023.11	471,848.79
Deficit . . . . .					
Total . . . . .	28,684.88	15,486.20	260,944.32	92,023.11	471,848.79
<b>LIABILITIES</b>					
Debenture balance . . . . .	6,233.94				
Accounts payable . . . . .	31.37	249.69	88.08	79.16	15.87
Bank overdraft . . . . .	20.00	234.14	700.28	972.40	
Other liabilities . . . . .					5,965.00
Total liabilities . . . . .	6,285.31	483.83	788.36	1,051.56	5,980.87
<b>RESERVES</b>					
For equity in H-E.P.C. systems . . . . .	4,824.30	1,262.72	126,939.71	52,454.37	180,963.90
For depreciation . . . . .	3,333.00	1,098.67	31,762.45	9,742.20	92,289.56
Other reserves . . . . .			10,197.89		17,756.22
Total reserves . . . . .	8,157.30	2,361.39	168,900.05	62,196.57	291,009.68
<b>SURPLUS</b>					
Debentures paid . . . . .	6,069.56	9,000.00	33,046.41	9,500.00	127,000.00
Local sinking fund . . . . .	8,172.71	3,640.98	58,209.50	19,274.98	47,858.24
Operating surplus . . . . .					
Total surplus . . . . .	14,242.27	12,640.98	91,255.91	28,774.98	174,858.24
Total liabilities, reserves and surplus . . . . .	28,684.88	15,486.20	260,944.32	92,023.11	471,848.79
Percentage of net debt to total assets . . . . .	26.3	3.4	0.6	2.7	2.1

**"A"—Continued****Hydro Municipalities as at December 31, 1944**

Mitchell 1,588	Moorefield P.V.	Morrisburg 1,528	Mount Brydges P.V.	Mount Forest 1,787	Napanee 3,269	Neustadt 433
\$ c. 19,125.54	\$ c. .....	\$ c. 5,000.00	\$ c. .....	\$ c. 3,726.00	\$ c. 16,354.36	\$ c. .....
16,526.28	.....	4,457.21	.....	686.75	2,358.27	.....
33,295.12	3,228.28	11,731.63	7,786.87	23,224.98	48,135.90	10,569.52
15,324.27	873.25	5,663.55	1,845.43	8,339.56	12,015.88	4,035.81
14,024.63	1,478.32	7,587.75	2,820.66	9,057.41	19,394.60	2,599.45
7,303.08	295.88	795.00	1,385.36	2,397.89	4,719.85	496.41
2,584.46	352.15	277.08	105.90	1,850.49	3,715.26	1,495.88
.....	.....	27,733.82	.....	3,810.95	.....	.....
108,183.38	6,227.88	63,246.04	13,944.22	53,094.03	106,694.12	19,197.07
2,970.41	1,362.87	717.32	1,028.96	1,511.94	521.30	1,717.04
20,750.00	3,500.00	8,000.00	14,000.00	9,000.00	9,050.00	13,000.00
3,666.22	30.62	139.86	632.63	212.20	7,207.50	41.69
4,846.91	.....	.....	.....	870.16	7,890.15	.....
56,896.00	7,741.29	3,051.04	9,726.28	42,344.53	54,796.88	7,819.97
2.93	.....	270.00	.....	.....	2.33	.....
197,315.85	18,862.66	75,424.26	39,332.09	107,032.86	186,162.28	41,775.77
.....	.....	.....	.....	.....	.....	.....
197,315.85	18,862.66	75,424.26	39,332.09	107,032.86	186,162.28	41,775.77
.....	.....	.....	.....	.....	.....	.....
129.57	33.89	8,056.86	.....	1,792.60	.....	38.94
.....	.....	40.86	681.08	.....	.....	.....
328.00	6.00	1,383.40	149.09	385.00	1,077.50	148.85
457.57	39.89	9,481.12	830.17	2,177.60	1,077.50	187.79
.....	.....	.....	.....	.....	.....	.....
56,896.00	7,741.29	3,051.04	9,726.28	42,344.53	54,796.88	7,819.97
50,145.78	3,766.73	2,581.52	5,976.00	27,671.33	19,741.34	11,799.72
1,262.80	.....	31,296.54	97.38	1,500.00	2,500.00	.....
108,304.58	11,508.02	36,929.10	15,799.66	71,515.86	77,038.22	19,619.69
.....	.....	.....	.....	.....	.....	.....
22,295.22	4,500.00	26,516.42	4,220.00	29,166.00	70,000.00	17,000.00
66,258.48	2,814.75	2,497.62	18,482.26	4,173.40	38,046.56	4,968.29
88,553.70	7,314.75	29,014.04	22,702.26	33,339.40	108,046.56	21,968.29
197,315.85	18,862.66	75,424.26	39,332.09	107,032.86	186,162.28	41,775.77
0.3	0.3	13.1	2.8	3.4	0.8	0.6

## STATEMENT

## Balance Sheets of Electrical Departments of

## SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Newbury	Newcastle	New Hamburg 1,395	New Toronto 8,360	Niagara Falls 20,118
Population.....	241	767			
<b>ASSETS</b>					
Lands and buildings.....	\$ 107.37	\$ 2,517.19	\$ 45,514.80	\$ 133,102.32	
Substation equipment.....		1,217.05			283,798.10
Distribution system—overhead.....	6,945.58	14,925.39	24,874.06	101,121.70	210,261.45
Distribution system—underground.....				17,198.72	
Line transformers.....	1,571.26	4,095.74	11,110.41	49,131.92	193,336.55
Meters.....	1,434.31	3,972.96	10,791.57	42,302.05	127,120.53
Street light equipment, regular.....	881.47	876.40	2,274.20	14,808.09	118,340.65
Street light equipment, ornamental.....					
Miscellaneous construction expense.....	530.15	490.00	271.95	6,661.67	24,267.58
Steam or hydraulic plant.....					
Old plant.....			5,242.56		
Total plant.....	11,362.77	24,467.86	58,298.99	276,738.95	1,090,227.18
Bank and cash balance.....	484.59	419.26	1,808.73	20,513.28	32,872.62
Securities and investments.....	6,500.00	9,000.00	17,100.00	94,000.00	205,000.00
Accounts receivable.....	41.94	176.96	189.80	1,169.55	612.33
Inventories.....			676.76	3,615.27	10,133.94
Sinking fund on local debentures.....					
Equity in H-E.P.C. systems.....	5,528.79	3,204.56	61,671.45	601,439.40	711,335.73
Other assets.....			1.01	224.20	58.62
Total assets.....	23,918.09	37,268.64	139,746.74	997,700.65	2,050,240.42
Deficit.....					
Total.....	23,918.09	37,268.64	139,746.74	997,700.65	2,050,240.42
<b>LIABILITIES</b>					
Debenture balance.....					45,951.17
Accounts payable.....	2.76			507.71	1,327.84
Bank overdraft.....			228.50		
Other liabilities.....	25.00			6,547.04	18,742.06
Total liabilities.....	27.76		228.50	7,054.75	66,021.07
<b>RESERVES</b>					
For equity in H-E.P.C. systems.....	5,528.79	3,204.56	61,671.45	601,439.40	711,335.73
For depreciation.....	5,866.16	11,337.87	21,383.61	89,934.22	361,346.20
Other reserves.....			4,633.83	32,443.30	15,325.00
Total reserves.....	11,394.95	14,542.43	87,688.89	723,816.92	1,088,006.93
<b>SURPLUS</b>					
Debentures paid.....	9,754.39	14,000.00	17,729.08	8,000.00	644,291.83
Local sinking fund.....					
Operating surplus.....	2,740.99	8,726.21	34,100.27	258,828.98	251,920.59
Total surplus.....	12,495.38	22,726.21	51,829.35	266,828.98	896,212.42
Total liabilities, reserves and surplus.	23,918.09	37,268.64	139,746.74	997,700.65	2,050,240.42
Percentage of net debt to total assets.	0.2	0.0	0.3	1.7	4.9

## "A"—Continued

## Hydro Municipalities as at December 31, 1944

Niagara-on-the-Lake 1,884	North York Twp. V. A.	Norwich 1,184	Norwood 694	Oil Springs 445	Omemee 464	Orangeville 2,386
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
2,320.00	33,634.77	4,660.42	457.53	6,299.16	360.32	2,585.07
23,903.79						1,169.00
39,785.94	498,251.10	11,926.99	24,103.44	15,037.41	14,018.53	37,419.29
23,366.68	156,536.90	7,283.58	4,837.62	6,591.94	7,324.64	11,692.62
14,245.37	113,154.81	8,381.47	5,546.76	4,287.50	3,784.45	15,067.91
4,560.37	156.00	4,685.64	1,886.92	308.24	805.48	7,532.55
	21,090.84					
3,537.76	27,116.18	533.80	3,615.22	1,475.43	1,405.00	6,071.48
			2,447.51			
111,719.91	849,940.60	37,471.90	42,895.00	36,461.46	27,698.42	81,537.92
669.21	22,517.68	3,948.49	2,801.02	857.67	1,877.10	2,275.81
	130,000.00	13,000.00	19,500.00	7,000.00	6,000.00	18,000.00
2,028.74	8,997.37	872.88	207.64	92.83		303.92
7,136.11	17,891.30	1,679.88		148.63		412.03
41,077.93	233,890.70	45,671.00	7,697.59	30,396.01	1,901.60	57,706.56
0.24		48.15				
162,632.14	1,263,237.65	102,692.30	73,101.25	74,956.60	37,477.12	160,236.24
162,632.14	1,263,237.65	102,692.30	73,101.25	74,956.60	37,477.12	160,236.24
19,146.61	135,939.26		11,834.48			
3,837.82	3,376.84	139.68		195.52	23.85	141.95
504.56	32,798.12	337.39	505.22	27.24	178.32	173.00
23,488.99	172,114.22	477.07	12,339.70	222.76	202.17	314.95
41,077.93	233,890.70	45,671.00	7,697.59	30,396.01	1,901.60	57,706.56
20,854.18	200,315.16	12,011.55	19,555.84	13,233.71	13,580.26	37,234.12
749.25	1,724.55	543.91		1,285.23		
62,681.36	435,930.41	58,226.46	27,253.43	44,914.95	15,481.86	94,940.68
29,354.81	392,082.61	13,756.00	25,265.52	16,721.31	12,000.00	35,900.00
47,106.98	263,110.41	30,232.77	8,242.60	13,097.58	9,793.09	29,080.61
76,461.79	655,193.02	43,988.77	33,508.12	29,818.89	21,793.09	64,980.61
162,632.14	1,263,237.65	102,692.30	73,101.25	74,956.60	37,477.12	160,236.24
19.3	15.0	0.8	18.8	0.5	0.5	0.3

## STATEMENT

## Balance Sheets of Electrical Departments of

## SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Orono	Oshawa	Ottawa	Otterville
Population.....	P.V.	26,843	158,581	P.V.
<b>ASSETS</b>				
Lands and buildings.....	\$ 64,755.82	\$ 489,535.57		
Substation equipment.....	9,111.95	1,011,366.10		
Distribution system—overhead.....	5,541.60	297,801.76	924,409.33	8,826.38
Distribution system—underground.....			252,734.27	
Line transformers.....	1,462.79	80,032.90	413,254.88	4,897.88
Meters.....	1,985.38	135,698.18	323,326.62	3,175.97
Street light equipment, regular.....	602.99	19,105.43	124,662.85	1,684.17
Street light equipment, ornamental.....				
Miscellaneous construction expense.....		27,756.93	38,511.08	517.43
Steam or hydraulic plant.....		6,431.65		
Old plant.....				
Total plant.....	9,592.76	640,694.62	3,577,800.70	19,101.83
Bank and cash balance.....	1,398.33	8,316.76	388,335.13	293.03
Securities and investments.....	3,000.00	175,000.00	890,000.00	6,500.00
Accounts receivable.....	70.83	74,978.17	93,360.46	826.43
Inventories.....		22,291.68	41,340.12	
Sinking fund on local debentures.....			263,251.67	
Equity in H-E.P.C. systems.....	1,412.39	705,119.38	274,114.85	11,230.23
Other assets.....				
Total assets.....	15,474.31	1,626,400.61	5,528,202.93	37,951.52
Deficit.....				
Total.....	15,474.31	1,626,400.61	5,528,202.93	37,951.52
<b>LIABILITIES</b>				
Debenture balance.....		36,000.00	172,038.63	
Accounts payable.....	169.56	52,734.15	64,899.93	33.37
Bank overdraft.....				
Other liabilities.....		26,580.50		98.88
Total liabilities.....	169.56	115,314.65	236,938.56	132.25
<b>RESERVES</b>				
For equity in H-E.P.C. systems.....	1,412.39	705,119.38	274,114.85	11,230.23
For depreciation.....	915.00	126,353.99	1,795,937.88	8,172.84
Other reserves.....	1,000.00	75,886.39	550,948.12	
Total reserves.....	3,327.39	907,359.76	2,621,000.85	19,403.07
<b>SURPLUS</b>				
Debentures paid.....	8,000.00	274,000.00	807,961.37	4,500.00
Local sinking fund.....			263,251.67	
Operating surplus.....	3,977.36	329,726.20	1,599,050.48	13,916.20
Total surplus.....	11,977.36	603,726.20	2,670,263.52	18,416.20
Total liabilities, reserves and surplus.....	15,474.31	1,626,400.61	5,528,202.93	37,951.52
Percentage of net debt to total assets....	1.2	12.5	1.2	0.5

"A"—Continued

Hydro Municipalities as at December 31, 1944

Owen Sound 13,591	Paisley 615	Palmerston 1,342	Paris 4,608	Parkhill 882	Penetanguishene 3,843	Perth 4,154
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
28,270.25		12,570.15			2,288.05	5,109.34
17,962.64	1,923.46	1,346.28	49,807.14		7,161.13	6,961.44
124,394.80	12,470.52	33,440.10	57,202.03	18,414.65	52,520.38	50,130.80
68,403.00	2,154.25	11,406.81	28,971.93	7,070.04	21,888.15	28,125.28
69,025.91	3,430.20	8,914.21	22,640.33	5,410.26	17,565.30	25,472.13
30,899.17	1,045.51	6,818.19	14,084.12	1,027.53	3,942.13	4,738.61
948.91	647.22	901.32	1,396.18	1,519.70	903.87	5,802.49
26,982.00						23,354.70
366,886.68	21,671.16	62,826.91	186,671.88	33,442.18	106,269.01	149,694.79
8,890.69	2,713.54	2,490.57	1,173.10	2,765.57	2,944.50	8,362.07
7,500.00	5,500.00	10,750.00	34,500.00	8,000.00	25,000.00	77,500.00
4,316.10	59.86	882.93	480.97	251.63	1,296.71	2,313.09
8,545.60		1,783.36			307.34	14,640.24
279,634.52	14,012.40	54,803.45	142,328.38	24,288.11	80,237.35	88,554.75
		440.60				
675,773.59	43,956.96	133,977.82	365,154.33	68,747.49	216,054.91	341,064.94
675,773.59	43,956.96	133,977.82	365,154.33	68,747.49	216,054.91	341,064.94
17,028.20	94.42	2,341.10	207.86	0.39	197.48	26,657.25
						15.00
7,803.73	56.03	297.99		117.32	830.50	3,055.32
24,831.93	150.45	2,639.09	207.86	117.71	1,027.98	29,727.57
279,634.52	14,012.40	54,803.45	142,328.38	24,288.11	80,237.35	88,554.75
106,340.27	7,371.85	17,106.14	94,821.55	12,024.48	53,850.69	76,186.25
10,379.42	1,000.00	401.89	121.17	2,700.00	9,922.10	2,980.11
396,354.21	22,384.25	72,311.48	237,271.10	39,012.59	144,010.14	167,721.11
141,000.00	16,000.00	27,000.00	92,000.00	14,630.02	36,982.95	81,742.75
113,587.45	5,422.26	32,027.25	35,675.37	14,987.17	34,033.84	61,873.51
254,587.45	21,422.26	59,027.25	127,675.37	29,617.19	71,016.79	143,616.26
675,773.59	43,956.96	133,977.82	365,154.33	68,747.49	216,054.91	341,064.94
.6.3	0.5	3.3	0.1	0.3	0.8	11.8

## STATEMENT

## Balance Sheets of Electrical Departments of

## SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Peterborough 27,776	Petrolia	Picton	Platts-ville P.V.	Point Edward 1,221
Population.....	2,605	3,383			
<b>ASSETS</b>					
Lands and buildings.....	\$ 80,537.86	\$ 900.00	\$ 10,901.23		
Substation equipment.....	124,548.59	5,956.75	2,004.66		
Distribution system—overhead.....	339,210.97	51,257.74	42,622.74	4,930.57	22,774.74
Distribution system—underground.....					
Line transformers.....	139,700.86	35,421.76	14,662.12	2,432.95	7,918.41
Meters.....	129,035.70	17,843.98	21,976.32	2,615.28	7,222.15
Street light equipment, regular.....	62,060.66	6,649.63	10,557.74	158.29	3,252.88
Street light equipment, ornamental.....					
Miscellaneous construction expense.....	5,271.00	5,162.07	4,063.42	589.38	712.72
Steam or hydraulic plant.....					
Old plant.....		3,389.94			
Total plant.....	880,365.64	126,581.87	106,788.23	10,726.47	41,880.90
Bank and cash balance.....	2,567.79	1,265.78	7,115.17	1,362.03	662.99
Securities and investments.....	235,000.00	35,000.00	41,500.00	9,000.00	19,000.00
Accounts receivable.....	47,868.79	1,477.81	2,130.32	41.60	458.98
Inventories.....	19,106.19	3,546.44	5,889.34		568.66
Sinking fund on local debentures.....	183,159.43				
Equity in H-E.P.C. systems.....	414,791.75	127,190.37	68,966.04	11,678.75	81,744.23
Other assets.....		265.04			
Total assets.....	1,782,859.59	295,327.31	232,389.10	32,808.85	144,315.76
Deficit.....					
Total.....	1,782,859.59	295,327.31	232,389.10	32,808.85	144,315.76
<b>LIABILITIES</b>					
Debenture balance.....	235,920.00	2,282.57			
Accounts payable.....	32,505.70	103.95	33.70	42.69	1,622.24
Bank overdraft.....					
Other liabilities.....	440.00	1,192.56	4,152.25		401.35
Total liabilities.....	268,865.70	3,579.08	4,185.95	42.69	2,023.59
<b>RESERVES</b>					
For equity in H-E.P.C. systems.....	414,791.75	127,190.37	68,966.04	11,678.75	81,744.23
For depreciation.....	224,317.19	50,938.45	27,326.66	4,754.39	19,627.99
Other reserves.....	1,212.42	62.20	14,468.91		1,042.59
Total reserves.....	640,321.36	178,191.02	110,761.61	16,433.14	102,414.81
<b>SURPLUS</b>					
Debentures paid.....	264,690.67	47,717.43	5,730.32	5,237.00	17,000.00
Local sinking fund.....	183,159.43				
Operating surplus.....	425,822.43	65,839.78	111,711.22	11,096.02	22,877.36
Total surplus.....	873,672.53	113,557.21	117,441.54	16,333.02	39,877.36
Total liabilities, reserves and surplus.....	1,782,859.59	295,327.31	232,389.10	32,808.85	144,315.76
Percentage of net debt to total assets.....	7.2	2.1	2.6	0.2	3.2

## "A"—Continued

## Hydro Municipalities as at December 31, 1944

Port Colborne 7,050	Port Credit 1,956	Port Dalhousie 1,747	Port Dover 1,818	Port Elgin 1,329	Port Hope 4,910	Port McNicoll 964
\$ 29,470.68	\$ 675.00	\$ .....	\$ 248.75	\$ 111.25	\$ 11,691.21	\$ 369.08
88,294.75	38,708.86	23,104.02	37,378.47	27,468.82	57,356.07	9,972.33
31,954.16	15,479.23	15,038.93	14,697.97	7,955.37	21,796.83	1,779.20
29,845.38	14,727.26	12,665.11	11,961.21	8,370.79	28,884.36	3,417.14
5,300.06	5,180.06	1,083.91	2,767.73	2,270.59	3,601.25	696.26
16,611.59	.....	.....	.....	.....	.....	.....
6,716.33	1,120.66	3,128.80	2,154.66	238.42	5,398.38	683.17
9,929.60	.....	6,018.38	.....	4,213.00	.....	.....
218,122.55	75,891.07	61,039.15	69,208.79	50,628.24	131,828.10	16,917.18
7,673.03	4,535.19	3,560.49	717.04	3,285.35	2,338.80	483.89
93,000.00	10,000.00	8,500.00	12,000.00	9,000.00	22,000.00	2,500.00
2,656.96	802.41	842.79	1,602.73	79.14	356.10	173.41
3,377.36	.....	255.25	213.48	.....	2,640.00	.....
127,049.39	52,906.88	47,883.62	33,939.93	17,416.07	78,431.76	7,998.42
43.50	.....	17.05	25.58	.....	.....	.....
451,922.79	144,135.55	122,098.35	117,707.55	80,408.80	237,594.76	28,072.90
451,922.79	144,135.55	122,098.35	117,707.55	80,408.80	237,594.76	28,072.90
13,166.45	1,707.21	.....	.....	17,105.74	.....	.....
226.65	562.27	292.63	135.00	3,447.81	.....	63.24
20,333.52	1,144.07	1,163.66	729.00	.....	6,448.55	258.40
33,726.62	3,413.55	1,456.29	864.00	20,553.55	6,448.55	321.64
127,049.39	52,906.88	47,883.62	33,939.93	17,416.07	78,431.76	7,998.42
64,474.99	25,800.37	11,823.14	20,904.43	12,429.99	32,439.61	6,495.31
29,631.33	7,849.48	214.16	.....	.....	.....	.....
221,155.71	86,556.73	59,920.92	54,844.36	29,846.06	110,871.37	14,493.73
132,833.55	12,792.79	22,500.00	29,000.00	24,894.26	79,000.00	7,300.00
64,206.91	41,372.48	38,221.14	32,999.19	5,114.93	41,274.84	5,957.53
197,040.46	54,165.27	60,721.14	61,999.19	30,009.19	120,274.84	13,257.53
451,922.79	144,135.55	122,098.35	117,707.55	80,408.80	237,594.76	28,072.90
5.6	3.7	1.9	0.0	32.6	4.1	1.6

## STATEMENT

## Balance Sheets of Electrical Departments of

## SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Port Perry 1,216	Port Rowan 622	Port Stanley 919	Prescott 3,283	Preston 6,707
Population.....					
<b>ASSETS</b>	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....			1,574.60	2,761.54	
Substation equipment.....	2,564.65				57,211.70
Distribution system—overhead.....	20,066.24	10,396.48	27,744.41	43,128.88	92,040.97
Distribution system—underground.....					
Line transformers.....	5,363.65	1,883.34	14,325.19	21,183.02	55,798.95
Meters.....	5,319.71	2,807.31	13,430.57	21,468.99	45,075.87
Street light equipment, regular.....	1,816.38	893.23	2,189.82	2,302.03	5,646.12
Street light equipment, ornamental.....					
Miscellaneous construction expense.....	188.68	726.43	6,809.64	1,198.52	9,037.89
Steam or hydraulic plant.....					
Old plant.....					32,126.75
Total plant.....	35,319.31	16,706.79	66,074.23	92,042.98	296,938.25
Bank and cash balance.....	2,569.28	2,794.59	420.85	2,276.17	15,968.95
Securities and investments.....	7,000.00	6,500.00	21,000.00	3,300.00	25,000.00
Accounts receivable.....	360.62	6.06	513.64	2,246.95	13,967.83
Inventories.....			14.00	516.80	6,156.47
Sinking fund on local debentures.....					
Equity in H-E.P.C. systems.....	22,880.39	8,838.04	51,708.96	62,689.18	324,789.69
Other assets.....					3.82
Total assets.....	68,129.60	34,845.48	139,731.68	163,072.08	682,825.01
Deficit.....					
Total.....	68,129.60	34,845.48	139,731.68	163,072.08	682,825.01
<b>LIABILITIES</b>					
Debenture balance.....	3,098.49	2,564.10			8,145.73
Accounts payable.....			127.25	3,758.32	10,082.94
Bank overdraft.....	644.00	235.00	326.42	456.40	1,211.73
Other liabilities.....					
Total liabilities.....	3,742.49	2,799.10	453.67	4,214.72	19,440.40
<b>RESERVES</b>					
For equity in H-E.P.C. systems.....	22,880.39	8,838.04	51,708.96	62,689.18	324,789.69
For depreciation.....	14,988.83	5,828.15	21,666.06	57,375.17	163,288.78
Other reserves.....			4,075.23		439.88
Total reserves.....	37,869.22	14,666.19	77,450.25	120,064.35	488,518.35
<b>SURPLUS</b>					
Debentures paid.....	16,783.17	8,435.90	18,950.00	12,170.99	144,654.27
Local sinking fund.....					
Operating surplus.....	9,734.72	8,944.29	42,877.76	26,622.02	30,211.99
Total surplus.....	26,517.89	17,380.19	61,827.76	38,793.01	174,866.26
Total liabilities, reserves and surplus.....	68,129.60	34,845.48	139,731.68	163,072.08	682,825.01
Percentage of net debt to total assets.....	8.3	10.8	0.5	4.2	5.4

"A"—Continued

Hydro Municipalities as at December 31, 1944

Priceville P.V.	Princeton P.V.	Queenston P.V.	Richmond 437	Richmond Hill 1,423	Ridgetown 1,854	Ripley 361
\$ 68.00	\$ 4,478.31	\$ 8,868.77	\$ 6,964.25	\$ 600.00	\$ 3,652.97	\$ 1,024.24
5,531.33				13,103.58	24,831.87	10,651.29
1,120.36	3,473.44	3,499.29	1,445.78	12,385.34	12,608.57	4,797.30
590.89	1,576.66	1,971.61	1,662.49	7,683.42	10,847.08	2,142.26
256.88	207.93	435.63	194.48	1,338.88	6,963.68	844.33
833.90	85.71	2,626.46	612.67		1,431.73	
					1,394.75	1,236.36
					5,088.46	
8,401.36	9,822.05	17,401.76	10,879.67	35,111.22	67,843.35	19,671.54
337.20	986.23	619.39	1,222.36	4,045.28	1,131.00	1,000.46
2,500.00	6,500.00	6,800.00		8,500.00	15,000.00	
3.49	18.57	142.39	88.90	119.95	256.27	7.84
					400.19	
1,211.17	12,082.99	8,766.86	3,977.45	26,302.36	53,711.53	10,165.57
					280.00	
12,453.22	29,409.84	33,730.40	16,168.38	74,078.81	138,622.34	30,845.41
12,453.22	29,409.84	33,730.40	16,168.38	74,078.81	138,622.34	30,845.41
101.06	46.00	521.56	1,963.86		719.68	4,330.48
		.40		1,957.81	1,920.63	
		75.00	74.87	567.24	2,356.73	383.83
101.06	46.00	596.96	2,038.73	2,525.05	4,997.04	4,714.31
1,211.17	12,082.99	8,766.86	3,977.45	26,302.36	53,711.53	10,165.57
3,903.31	3,426.04	5,645.03	2,953.73	4,641.73	23,498.36	4,868.49
				3,069.37	8,713.45	
5,114.48	15,509.03	14,411.89	6,931.18	34,013.46	85,923.34	15,034.06
7,000.00	3,550.00	8,978.44	4,536.14	12,200.00	18,736.31	9,641.46
237.68	10,304.81	9,743.11	2,662.33	25,340.30	28,965.65	1,455.58
7,237.68	13,854.81	18,721.55	7,198.47	37,540.30	47,701.96	11,097.04
12,453.22	29,409.84	33,730.40	16,168.38	74,078.81	138,622.34	30,845.41
0.9	0.3	2.4	16.7	5.3	4.3	22.8

## STATEMENT

## Balance Sheets of Electrical Departments of

## SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Riverside	Rockwood	Rodney	Rosseau	Russell
Population.....	5,525	P.V.	722	201	P.V.
<b>ASSETS</b>					
Lands and buildings.....	\$ 11,371.12	\$ 79.00			
Substation equipment.....					
Distribution system—overhead.....	86,373.91	9,143.32	12,289.98	7,857.44	8,215.46
Distribution system—underground.....					
Line transformers.....	28,070.01	3,823.65	4,000.32	2,314.23	1,790.50
Meters.....	28,753.49	3,663.81	4,021.33	1,317.86	1,935.57
Street light equipment, regular.....		731.82	3,533.02	623.60	589.70
Street light equipment, ornamental.....	19,163.24				
Miscellaneous construction expense.....	6,482.01	444.97	856.21	1,118.09	1,209.25
Steam or hydraulic plant.....					
Old plant.....					
Total plant.....	180,213.78	17,886.57	24,700.86	13,231.22	13,740.48
Bank and cash balance.....	513.98	528.34	1,941.09	1,197.53	1,001.41
Securities and investments.....	36,000.00	4,600.00	6,700.00	2,000.00	6,000.00
Accounts receivable.....	10,307.26	30.45	27.19		
Inventories.....	4,949.72	91.92			
Sinking fund on local debentures.....					
Equity in H-E.P.C. systems.....	103,110.39	13,969.00	17,177.42	4,702.28	7,016.17
Other assets.....					
Total assets.....	335,095.13	37,106.28	50,546.56	21,131.03	27,758.06
Deficit.....				125.22	
Total.....	335,095.13	37,106.28	50,546.56	21,256.25	27,758.06
<b>LIABILITIES</b>					
Debenture balance.....		1,160.79		7,709.04	793.17
Accounts payable.....	4,433.26	30.84	656.82		3.02
Bank overdraft.....					
Other liabilities.....	21,443.37	133.72	305.00	20.00	20.00
Total liabilities.....	25,876.63	1,325.35	961.82	7,729.04	816.19
<b>RESERVES</b>					
For equity in H-E.P.C. systems.....	103,110.39	13,969.00	17,177.42	4,702.28	7,016.17
For depreciation.....	58,753.12	8,009.26	5,474.59	3,465.23	4,073.39
Other reserves.....	13,338.82		75.54	68.74	
Total reserves.....	175,202.33	21,978.26	22,727.55	8,236.25	11,089.56
<b>SURPLUS</b>					
Debentures paid.....	82,500.00	3,339.21	8,500.00	5,290.96	9,206.83
Local sinking fund.....					
Operating surplus.....	51,516.17	10,463.46	18,357.19		6,645.48
Total surplus.....	134,016.17	13,802.67	26,857.19	5,290.96	15,852.31
Total liabilities, reserves and surplus.....	335,095.13	37,106.28	50,546.56	21,256.25	27,758.06
Percentage of net debt to total assets.....	3.2	5.7	2.9	47.0	3.9

**"A"—Continued****Hydro Municipalities as at December 31, 1944**

St. Catharines 32,559	St. Clair Beach *153	St. George P.V.	St. Jacobs P.V.	St. Marys 4,005	St. Thomas 17,773
\$ c. 55,475.10	\$ c. .....	\$ c. .....	\$ c. .....	\$ c. 18,773.68	\$ c. 79,093.04
160,533.82	.....	.....	.....	32,455.55	131,949.61
297,622.82	9,224.37	6,212.01	7,953.61	64,723.06	127,130.95
202,426.03	3,333.56	3,919.64	4,927.21	27,722.24	52,815.87
149,663.42	2,316.13	3,722.10	3,940.46	28,236.10	81,769.32
24,243.13	.....	339.74	396.19	6,638.04	22,502.13
29,486.71	.....	.....	.....	.....	3,693.04
5,748.81	3.20	374.18	490.10	5,918.94	3,768.70
24,000.00	.....	.....	.....	20,696.85	.....
949,199.84	14,877.26	14,567.67	17,707.57	205,164.46	574,093.36
8,908.33	907.62	270.12	435.30	6,018.07	175.00
285,000.00	5,500.00	9,500.00	85,00.00	18,000.00	145,000.00
56,677.27	223.00	27.66	4.77	805.77	19,535.97
15,023.58	.....	.....	.....	670.98	10,991.97
847,587.35	8,642.55	17,541.18	21,066.72	163,795.98	622,020.13
115.05	.....	.....	.....	.....	.....
2,162,396.37	30,150.43	41,906.63	47,714.36	394,570.31	1,371,816.43
.....	.....	.....	.....	.....	.....
2,162,396.37	30,150.43	41,906.63	47,714.36	394,570.31	1,371,816.43
.....	.....	.....	.....	.....	.....
22,750.00	.....	.....	.....	11,594.47	.....
93,040.85	329.15	3.75	11.78	355.58	.....
.....	.....	.....	.....	.....	281.20
29,933.21	125.00	392.82	.....	1,134.00	18,470.02
145,724.06	454.15	396.57	11.78	13,084.05	18,751.22
.....	.....	.....	.....	.....	.....
847,587.35	8,642.55	17,541.18	21,066.72	163,795.98	622,020.13
311,874.11	6,132.74	4,642.11	4,703.23	84,477.05	243,834.18
52,619.71	34.74	2,000.00	.....	3,196.96	25,448.81
1,212,081.17	14,810.03	24,183.29	25,769.95	251,469.99	891,303.12
.....	.....	.....	.....	.....	.....
279,272.91	6,341.45	6,000.00	6,000.00	102,652.55	138,944.07
525,318.23	8,544.80	11,326.77	15,932.63	27,363.72	322,818.02
804,591.14	14,886.25	17,326.77	21,932.63	130,016.27	461,762.09
2,162,396.37	30,150.43	41,906.63	47,714.36	394,570.31	1,371,816.43
9.0	2.1	1.6	0.0	5.7	2.0

\*Summer population

## STATEMENT

## Balance Sheets of Electrical Departments of

## SOUTHERN ONTARIO SYSTEM—Continued

Municipality .....	Sarnia	Scarbor-	Seaforth	Shel-	Simcoe
Population .....	17,840	ough Twp. V.A.	1,711	burne 1,044	6,224
<b>ASSETS</b>					
Lands and buildings.....	\$ 143,236.28	\$ 20,696.77	\$ 1,836.39	\$ 800.00	\$ 10,701.89
Substation equipment.....	235,560.49	18,309.47	8,930.07	566.60	41,527.90
Distribution system—overhead.....	240,405.81	335,950.83	32,416.73	15,434.65	61,965.62
Distribution system—underground.....	27.25	.....	.....	.....	1,412.24
Line transformers.....	97,813.93	99,944.11	13,953.24	7,771.53	44,644.02
Meters.....	93,494.89	90,292.87	11,786.31	7,018.28	38,246.70
Street light equipment, regular.....	28,518.79	21,740.49	5,789.27	1,104.49	8,500.33
Street light equipment, ornamental.....	8,271.83	.....	.....	.....	3,500.00
Miscellaneous construction expense.....	25,088.18	4,434.71	964.43	2,189.46	6,634.87
Steam or hydraulic plant.....	.....	.....	.....	.....	.....
Old plant.....	.....	.....	.....	.....	927.92
Total plant.....	872,417.45	591,369.25	75,676.44	34,885.01	218,061.49
Bank and cash balance.....	600.42	7,450.47	2,456.69	667.06	7,660.03
Securities and investments.....	145,000.00	165,000.00	8,500.00	13,500.00	60,000.00
Accounts receivable.....	7,372.22	13,157.47	1,394.47	144.61	568.80
Inventories.....	18,767.31	.....	1,285.31	.....	6,616.81
Sinking fund on local debentures.....	.....	.....	.....	.....	.....
Equity in H-E.P.C. systems.....	796,432.33	247,711.25	75,633.11	24,290.93	141,499.44
Other assets.....	3,065.54	26.20	.....	.....	.....
Total assets.....	1,843,655.27	1,024,714.64	164,946.02	73,487.61	434,406.57
Deficit.....	.....	.....	.....	.....	.....
Total.....	1,843,655.27	1,024,714.64	164,946.02	73,487.61	434,406.57
<b>LIABILITIES</b>					
Debenture balance.....	.....	.....	8,945.36	.....	10,269.33
Accounts payable.....	1,155.95	13,638.54	105.21	94.86	214.74
Bank overdraft.....	19,570.58	57,312.80	603.78	117.45	4,992.33
Other liabilities.....	.....	.....	.....	.....	.....
Total liabilities.....	20,726.53	70,951.34	9,654.35	212.31	15,476.40
<b>RESERVES</b>					
For equity in H-E.P.C. systems.....	796,432.33	247,711.25	75,633.11	24,290.93	141,499.44
For depreciation.....	260,436.85	188,634.85	26,107.21	19,076.34	47,270.27
Other reserves.....	35,944.57	59,244.59	256.65	1,500.00	22,000.00
Total reserves.....	1,092,813.75	495,590.69	101,996.97	44,867.27	210,769.71
<b>SURPLUS</b>					
Debentures paid.....	338,000.00	290,568.27	26,054.64	19,920.00	65,165.57
Local sinking fund.....	392,114.99	167,604.34	27,240.06	8,488.03	142,994.89
Operating surplus.....	.....	.....	.....	.....	.....
Total surplus.....	730,114.99	458,172.61	53,294.70	28,408.03	208,160.46
Total liabilities, reserves and surplus.....	1,843,655.27	1,024,714.64	164,946.02	73,487.61	434,406.57
Percentage of net debt to total assets.....	1.2	9.0	10.8	0.4	4.1

## "A"—Continued

## Hydro Municipalities as at December 31, 1944

Smiths Falls 7,468	Smithville P.V.	Southamp- ton 1,597	Springfield 409	Stamford Township V.A.	Stayner 1,172	Stirling 939
\$      c. 9,746.57 4,765.59 95,666.34	\$      c. ..... 25.00 10,882.74 27,755.44 10,228.10 168,485.79	\$      c. ..... ..... ..... 11,059.27 10,782.06 2,558.48 609.47	\$      c. ..... ..... ..... 3,003.15 2,348.18 609.47 685.08	\$      c. ..... ..... ..... 67,151.64 51,325.05 10,859.08 11,785.32 13,743.66	\$      c. ..... ..... ..... 200.00 7,471.52 1,095.02 310.33 .....	\$      c. 8,522.88 8,034.64 7,057.31 4,854.60 5,454.73 3,203.33 1,259.98 .....
40,112.15 39,185.69 9,539.26	4,118.05 4,497.45 1,630.00	..... ..... ..... 309.59	..... ..... ..... 685.08	..... ..... ..... 11,785.32 310.33	..... ..... ..... ..... .....	..... ..... ..... ..... .....
2,534.19	219.20	..... 1,878.98	..... 2,477.00	..... ..... ..... 13,743.66	..... ..... ..... .....	..... ..... ..... .....
201,549.79	23,226.42	54,966.84	16,873.98	369,836.70	32,843.97	38,387.47
2,067.23 91,000.00 871.41 148.03	3,537.38 10,000.00 32.03	1,375.51 4,000.00 102.38	1,185.19 5,500.00 110.86	15,833.04 36,000.00 12,153.00 5,725.12	908.35 7,000.00 132.26 .....	6,386.13 12,500.00 704.69 877.74
128,732.85	1,465.01	15,953.57	11,202.54	125,180.78 678.81	21,406.05	11,408.41
424,369.31	38,260.84	76,398.30	34,872.57	565,407.45	62,290.63	70,264.44
424,369.31	38,260.84	76,398.30	34,872.57	565,407.45	62,290.63	70,264.44
..... 422.95	5,493.63 57.34	6,229.25 99.43	1,015.80 271.80	43,942.60 825.14	197.18 .....	..... .....
309.30	70.00	7.98	15.00	8,255.30	349.00	389.93
732.25	5,620.97	6,336.66	1,302.60	53,023.04	546.18	389.93
128,732.85 106,012.72 5,622.08	1,465.01 7,433.91	15,953.57 11,582.13	11,202.54 3,891.91	125,180.78 96,720.71 34,259.14	21,406.05 17,455.04 45.38	11,408.41 10,181.68 .....
240,367.65	8,898.92	27,535.70	15,094.45	256,160.63	38,906.47	21,590.09
122,787.33	9,506.37	26,770.68	8,484.20	196,335.57	9,867.59	10,000.00
60,482.08	14,234.58	15,755.26	9,991.32	59,888.21	12,970.39	38,284.42
183,269.41	23,740.95	42,525.94	18,475.52	256,223.78	22,837.98	48,284.42
424,369.31	38,260.84	76,398.30	34,872.57	565,407.45	62,290.63	70,264.44
0.2	15.3	10.5	5.5	12.0	1.3	0.7

## STATEMENT

## Balance Sheets of Electrical Departments of

## SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Stouffville	Stratford	Strathroy	Streetsville	Sunderland P.V.
Population.....	1,223	16,993	3,060	704	
<b>ASSETS</b>	<b>\$ c.</b>				
Lands and buildings.....	141,455.78	9,373.61	8,883.49		
Substation equipment.....	183,275.75	23,640.34	1,172.04		
Distribution system—overhead.....	15,035.74	157,545.65	50,335.49	9,610.37	4,525.87
Distribution system—underground.....		22,971.15			
Line transformers.....	5,656.84	108,566.45	26,600.75	7,687.40	1,772.83
Meters.....	5,658.14	92,066.46	17,438.89	4,410.15	2,400.95
Street light equipment, regular.....	1,613.55	25,809.76	6,238.53	1,619.31	670.57
Street light equipment, ornamental.....					
Miscellaneous construction expense.....	433.56	17,265.53	2,595.30	892.81	142.22
Steam or hydraulic plant.....				10,641.55	
Old plant.....		31,520.00			2,030.00
Total plant.....	28,397.83	780,476.53	136,222.91	44,917.12	11,542.44
Bank and cash balance.....	2,537.03	20,272.05	4,326.01	2,053.51	665.15
Securities and investments.....	19,500.00	198,000.00	29,000.00	9,500.00	3,000.00
Accounts receivable.....		9,100.14	2,930.44	1,038.11	
Inventories.....		9,423.06	1,619.85		
Sinking fund on local debentures.....		55,401.50			
Equity in H-E.P.C. systems.....	21,696.25	739,299.75	112,334.94	4,459.79	12,616.24
Other assets.....		754.00			
Total assets.....	72,131.11	1,812,727.03	286,434.15	61,968.53	27,823.83
Deficit.....					
Total.....	72,131.11	1,812,727.03	286,434.15	61,968.53	27,823.83
<b>LIABILITIES</b>					
Debenture balance.....		80,000.00	12,457.05	8,674.60	
Accounts payable.....	117.43	884.30	153.51	191.03	77.18
Bank overdraft.....					
Other liabilities.....	445.60	5,564.42	1,191.59	235.38	35.00
Total liabilities.....	563.03	86,448.72	13,802.15	9,101.01	112.18
<b>RESERVES</b>					
For equity in H-E.P.C. systems.....	21,696.25	739,299.75	112,334.94	4,459.79	12,616.24
For depreciation.....	5,260.25	409,771.52	52,865.73	8,239.42	6,701.02
Other reserves.....	4,350.96	30,825.72	1,021.76	2,621.35	59.25
Total reserves.....	31,307.46	1,179,896.99	166,222.43	15,320.56	19,376.51
<b>SURPLUS</b>					
Debentures paid.....	14,673.90	375,800.00	41,431.80	8,870.48	6,800.00
Local sinking fund.....		55,401.50			
Operating surplus.....	25,586.72	115,179.82	64,977.77	28,676.48	1,535.14
Total surplus.....	40,260.62	546,381.32	106,409.57	37,546.96	8,335.14
Total liabilities, reserves and surplus.....	72,131.11	1,812,727.03	286,434.15	61,968.53	27,823.83
Percentage of net debt to total assets.	1.1	3.5	7.9	15.9	0.7

"A"—Continued

Hydro Municipalities as at December 31, 1944

Sutton 918	Swansea 7,033	Tara 478	Tavistock 1,042	Tecumseh 2,628	Teeswater 826	Thamesford P.V.
\$   c.	\$   c.	\$   c.	\$   c.	\$   c.	\$   c.	\$   c.
22,306.21	81,228.55	11,445.96	13,818.07	39,478.99	18,045.27	7,870.51
9,110.09	52,500.67	3,508.91	8,851.63	11,760.17	6,481.40	4,100.27
7,456.81	37,656.06	2,265.94	6,713.47	14,477.64	4,064.84	3,543.35
1,932.90	10,929.96	2,721.65	1,152.93	4,760.95	1,495.82	298.97
1,668.86	5,206.22	1,433.06	761.33	2,611.05	1,794.90	366.15
675.00					4,976.86	
43,149.87	187,521.46	21,375.52	34,964.76	74,320.96	37,189.40	16,179.25
1,288.00	6,967.44	696.15	102.77	5,162.09		345.27
12,000.00	65,000.00	10,500.00	12,000.00	12,000.00	11,000.00	5,000.00
274.46	1,405.30	30.06	7.42	2,215.89	4.86	3.25
	13.50		629.46	180.12		
21,500.82	113,427.80	10,738.01	57,132.42	33,243.64	15,605.74	21,418.13
	13.70					
78,213.15	374,349.20	43,339.74	104,836.83	127,122.70	63,800.00	42,945.90
78,213.15	374,349.20	43,339.74	104,836.83	127,122.70	63,800.00	42,945.90
	54,046.26		725.78			
	527.90	21.49	166.26	1,304.30	1.34	28.85
20.00	5,153.49			5,464.93	57.22	
20.00	59,727.65	21.49	892.04	6,769.23	43.00	108.00
21,500.82	113,427.80	10,738.01	57,132.42	33,243.64	15,605.74	21,418.13
14,103.90	65,752.93	11,353.00	15,482.80	21,221.17	12,651.67	7,224.82
1,645.84	264.49		1,000.00	5,989.57	1,000.00	
37,250.56	179,445.22	22,091.01	73,615.22	60,454.38	29,257.41	28,642.95
26,000.00	48,620.70	15,500.00	5,274.22	26,000.00	28,000.00	5,358.03
14,942.59	86,555.63	5,727.24	25,055.35	33,899.09	6,441.03	8,808.07
40,942.59	135,176.33	21,227.24	30,329.57	59,899.09	34,441.03	14,166.10
78,213.15	374,349.20	43,339.74	104,836.83	127,122.70	63,800.00	42,945.90
0.0	22.9	0.1	1.9	2.3	0.2	0.6

## STATEMENT

## Balance Sheets of Electrical Departments of

## SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Thamesville 789	Thedford 557	Thorndale P.V.	Thornton P.V.	Thorold 5,374
Population.....					
<b>ASSETS</b>					
Lands and buildings.....	\$ 681.69	\$ c.	\$ c.	\$ c.	\$ c. 10,837.37
Substation equipment.....					2,572.33
Distribution system—overhead.....	13,348.51	9,979.86	3,922.34	6,805.06	44,007.85
Distribution system—underground.....					
Line transformers.....	5,773.60	4,370.73	2,045.45	1,764.80	24,035.33
Meters.....	4,823.21	3,145.54	2,023.45	1,009.17	24,804.22
Street light equipment, regular.....	2,278.15	917.64	181.19	433.25	3,244.74
Street light equipment, ornamental.....					
Miscellaneous construction expense.....	287.98	1,733.13	310.45	300.35	2,584.80
Steam or hydraulic plant.....					
Old plant.....		433.78			
Total plant.....	27,193.14	20,580.68	8,482.88	10,312.63	112,086.64
Bank and cash balance.....	1,100.63	2,029.71	280.83	1,174.06	1,439.74
Securities and investments.....	14,500.00	12,000.00	3,600.00	2,500.00	69,000.00
Accounts receivable.....	118.39	203.67	88.57	16.00	238.65
Inventories.....					2,715.89
Sinking fund on local debentures.....					
Equity in H-E.P.C. systems.....	21,802.78	12,096.29	10,583.66	4,215.33	130,964.78
Other assets.....					219.25
Total assets.....	64,714.94	46,910.35	23,035.94	18,218.02	316,664.95
Deficit.....				830.37	...
Total.....	64,714.94	46,910.35	23,035.94	19,048.39	316,664.95
<b>LIABILITIES</b>					
Debenture balance.....			134.38		
Accounts payable.....	92.56	216.90	26.79	655.29	70.06
Bank overdraft.....					
Other liabilities.....	381.00	11.39	65.80		2,542.50
Total liabilities.....	473.56	228.29	226.97	655.29	2,612.56
<b>RESERVES</b>					
For equity in H-E.P.C. systems.....	21,802.78	12,096.29	10,583.66	4,215.33	130,964.78
For depreciation.....	13,165.84	6,909.54	5,568.84	6,677.77	41,338.66
Other reserves.....	164.86		424.04		
Total reserves.....	35,133.48	19,005.83	16,576.54	10,893.10	172,303.44
<b>SURPLUS</b>					
Debentures paid.....	11,187.80	16,500.00	2,952.10	7,500.00	5,000.00
Local sinking fund.....	17,920.10	11,176.23	3,280.33		136,748.95
Operating surplus.....					
Total surplus.....	29,107.90	27,676.23	6,232.43	7,500.00	141,748.95
Total liabilities, reserves and surplus.....	64,714.94	46,910.35	23,035.94	19,048.39	316,664.95
Percentage of net debt to total assets.....	1.1	0.6	1.8	4.7	1.4

## "A"—Continued

## Hydro Municipalities as at December 31, 1944

Tilbury 1,982	Tillsonburg 3,999	Toronto* 674,285	Toronto Twp. V.A.	Tottenham 482	Trafalgar Twp. V.A. No. 1	Trafalgar Twp. V.A. No. 2
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
11,712.47	4,824.27	5,546,108.38	8,072.99	358.50	156.34	...
21,899.54	14,806,971.96	...	...	9,127.77	24,136.34	12,694.98
17,605.54	51,157.98	6,932,270.30	223,393.87	...	...	...
4,097,719.55	...	...	...	...	...	...
14,589.48	28,926.18	3,677,929.92	89,755.73	1,697.12	12,413.05	2,985.30
8,485.93	24,184.17	3,122,663.37	54,563.19	2,733.48	6,725.99	1,857.83
1,080.92	12,364.89	417,874.22	5,810.39	496.86	...	...
1,472.18	1,673.25	2,055,943.65	3,172.73	1,298.92	1,326.90	316.54
...	...	...	619.65	286.45	...	...
54,946.52	145,030.28	40,657,481.35	385,388.55	15,999.10	44,758.62	17,854.65
1,796.51	3,897.50	359,777.18	1,983.55	528.26	2,023.13	179.80
18,000.00	26,500.00	8,096,990.18	32,000.00	3,250.00	7,000.00	6,000.00
282.18	301.29	1,704,731.96	316.19	30.14	724.48	27.50
20.31	1,606.21	487,114.58	39.50	...	...	...
62,830.52	111,108.40	25,507,933.23	149,285.86	13,526.28	8,598.56	3,055.63
10.77	...	28,205.57	...	...	...	...
137,886.81	288,443.68	80,838,338.36	569,013.65	33,333.78	63,104.79	27,117.58
...	...	...	...	2,942.55	...	...
127,886.81	288,443.68	80,838,338.36	569,013.65	36,276.33	63,104.79	27,117.58
...	...	...	...	...	...	...
123.70	8,573.95	7,985,600.00	10,450.51	1,799.95	...	5,360.02
21.28	21.28	287,987.19	5,103.51	511.20	77.19	50.55
28.25	3,849.43	243,369.37	5,514.54	258.00	...	...
151.95	12,444.66	8,516,956.56	21,068.56	2,569.15	77.19	5,410.57
...	...	...	...	...	...	...
62,830.52	111,108.40	25,507,933.23	149,285.86	13,526.28	8,598.56	3,055.63
21,709.82	39,613.31	13,152,670.25	173,520.32	9,013.75	24,253.49	5,181.93
2,643.60	7,221.79	1,180,610.30	2,067.20	...	...	...
87,183.94	157,943.50	39,841,213.78	324,873.38	22,540.03	32,852.05	8,237.56
...	...	...	...	...	...	...
10,950.53	37,426.05	22,310,942.76	93,549.49	11,167.15	19,426.41	4,101.13
39,600.39	80,629.47	3,996,104.31	...	...	10,749.14	9,368.32
50,550.92	118,055.52	32,480,168.02	223,071.71	11,167.15	30,175.55	13,469.45
137,886.81	288,443.68	80,838,338.36	569,013.65	36,276.33	63,104.79	27,117.58
0.2	7.0	8.8	5.0	13.0	0.1	22.5

\*Includes 1944 power adjustment and equity.

## STATEMENT

## Balance Sheets of Electrical Departments of

## SOUTHERN ONTARIO SYSTEM—Continued

Municipality . . . . .	Trenton	Tweed	Uxbridge	Victoria Harbour	Walkerton
Population . . . . .	9,387	1,250	1,425	937	2,619
<b>ASSETS</b>					
Lands and buildings . . . . .	\$ 5,139.41	\$ 40.00			
Substation equipment . . . . .	48,848.11	2,657.65			
Distribution system—overhead . . . . .	120,740.25	16,485.39	15,734.81	10,763.93	42,379.80
Distribution system—underground . . . . .	26,984.61	4,754.93	5,536.64	2,371.26	15,221.71
Line transformers . . . . .	41,123.95	6,129.82	6,184.66	3,707.09	13,491.29
Meters . . . . .	18,863.92	2,251.51	1,505.99	366.32	2,771.24
Street light equipment, regular . . . . .					
Street light equipment, ornamental . . . . .					
Miscellaneous construction expense . . . . .	6,768.68		960.76	690.38	2,106.22
Steam or hydraulic plant . . . . .					
Old plant . . . . .					4,897.60
Total plant . . . . .	268,468.93	29,621.65	32,620.51	17,898.98	80,867.86
Bank and cash balance . . . . .	4,420.01	1,074.53	2,165.54	1,712.44	5,882.92
Securities and investments . . . . .	65,500.00	11,000.00	6,000.00	3,800.00	14,000.00
Accounts receivable . . . . .	468.05	599.44	160.13	103.08	1,571.85
Inventories . . . . .	4,426.10	778.96	51.01		1,598.02
Sinking fund on local debentures . . . . .					
Equity in H-E.P.C. systems . . . . .	112,463.21	12,922.53	24,756.61	8,152.26	27,791.02
Other assets . . . . .	91.31				
Total assets . . . . .	455,837.61	55,997.11	65,753.80	31,666.76	131,711.67
Deficit . . . . .					
Total . . . . .	455,837.61	55,997.11	65,753.80	31,666.76	131,711.67
<b>LIABILITIES</b>					
Debenture balance . . . . .					29,251.76
Accounts payable . . . . .	316.13	413.04	322.71	54.27	146.29
Bank overdraft . . . . .	6,677.81	297.00	395.00		256.00
Other liabilities . . . . .					
Total liabilities . . . . .	6,993.94	710.04	717.71	54.27	29,654.05
<b>RESERVES</b>					
For equity in H-E.P.C. systems . . . . .	112,463.21	12,922.53	24,756.61	8,152.26	27,791.02
For depreciation . . . . .	63,526.89	4,724.90	10,578.76	8,045.46	17,326.48
Other reserves . . . . .	26,500.00	1,937.58	2,486.77		53.91
Total reserves . . . . .	202,490.10	19,585.01	37,822.14	16,197.72	45,171.41
<b>SURPLUS</b>					
Debentures paid . . . . .	165,000.00	19,000.00	16,207.59	6,500.00	33,748.24
Local sinking fund . . . . .	81,353.57	16,702.06	11,006.36	8,914.77	23,137.97
Operating surplus . . . . .					
Total surplus . . . . .	246,353.57	35,702.06	27,213.95	15,414.77	56,886.21
Total liabilities, reserves and surplus . . . . .	455,837.61	55,997.11	65,753.80	31,666.76	131,711.67
Percentage of net debt to total assets . . . . .	2.0	1.6	1.8	0.2	28.5

**"A"—Continued****Hydro Municipalities as at December 31, 1944**

Wallaceburg	Wardsville	Warkworth	Waterdown	Waterford	Waterloo	Watford
4,970	227	P.V.	808	1,300	9,349	1,038
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
45,508.56			200.00	1,323.44	15,917.78	
11,484.36					79,877.58	
73,293.63	5,320.08	5,768.12	16,648.56	16,650.30	98,106.37	17,968.55
47,052.50	1,619.80	1,015.80	8,594.98	9,150.24	66,785.10	8,853.62
28,239.21	1,409.05	2,148.59	6,676.91	7,683.99	47,085.84	6,579.32
12,082.52	662.94	338.08	1,104.66	3,231.62	14,318.75	2,757.32
4,447.72	488.73	609.19	13.79	427.00	5,634.68	1,758.20
20,941.07		3,618.02			23,880.17	
243,049.57	9,500.60	13,497.80	33,238.90	38,466.59	354,713.07	37,917.01
877.35	116.29	703.31	3,222.99	1,587.88	10,019.57	2,896.00
60,500.00	5,000.00	4,200.00	9,000.00	11,300.00	99,000.00	12,300.00
2,891.27	1,138.57	5.70	363.88	23.52	1,539.19	471.83
11,762.99				146.95	1,162.56	603.18
241,171.02	4,587.03	4,990.00	27,336.21	40,403.92	335,192.65	30,439.73
235.66						16.71
560,487.86	20,342.49	23,396.81	73,161.98	91,928.86	801,627.04	84,644.46
560,487.86	20,342.49	23,396.81	73,161.98	91,928.86	801,627.04	84,644.46
2,830.82		5,881.71				
215.93	0.44	3.46		175.97	18.00	159.30
1,944.05						
3,302.35		24.00	94.37		3,106.80	318.20
8,293.15	0.44	5,909.17	94.37	175.97	3,124.80	477.50
241,171.02	4,587.03	4,990.00	27,336.21	40,403.92	335,192.65	30,439.73
71,931.24	4,522.90	3,882.52	10,218.98	15,196.88	184,795.10	14,363.53
18,373.26	25.22			2,500.00	735.26	109.17
331,475.52	9,135.15	8,872.52	37,555.19	58,100.80	520,723.01	44,912.43
68,705.76	7,562.40	5,118.29	8,000.00	7,745.53	106,000.00	9,055.77
152,013.43	3,644.50	3,496.83	27,512.42	25,906.56	171,779.23	30,198.76
220,719.19	11,206.90	8,615.12	35,512.42	33,652.09	277,779.23	39,254.53
560,487.86	20,342.49	23,396.81	73,161.98	91,928.86	801,627.04	84,644.46
2.6	0.0	32.1	0.2	0.3	0.0	0.9

## STATEMENT

## Balance Sheets of Electrical Departments of

## SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Waubauashene	Welland	Wellesley	Wellington
Population.....	P.V.	14,899	P.V.	1,076
<b>ASSETS</b>				
Lands and buildings.....	\$ 77,006.74			\$ 200.00
Substation equipment.....	117,054.79			499.80
Distribution system—overhead.....	9,978.04	188,775.33	7,855.24	15,509.61
Distribution system—underground.....		8,044.90		
Line transformers.....	2,836.34	120,311.84	3,153.94	5,252.67
Meters.....	3,325.23	82,260.44	3,153.66	6,363.94
Street light equipment, regular.....	303.35	11,428.04	545.11	1,349.61
Street light equipment, ornamental.....		40,273.85		
Miscellaneous construction expense.....	280.65	9,572.11	218.79	820.46
Steam or hydraulic plant.....				
Old plant.....		49,476.19		2,477.92
Total plant.....	16,723.61	704,204.23	14,926.74	32,474.01
Bank and cash balance.....	787.37	14,127.77	711.36	777.00
Securities and investments.....		194,220.76	7,300.00	12,000.00
Accounts receivable.....	65.63	10,325.02		86.76
Inventories.....		16,132.21		
Sinking fund on local debentures.....				
Equity in H-E.P.C. systems.....	5,820.01	397,788.42	19,706.55	12,953.60
Other assets.....		70.00	0.32	
Total assets.....	23,396.62	1,336,868.41	42,644.97	58,291.37
Deficit.....				
Total.....	23,396.62	1,336,868.41	42,644.97	58,291.37
<b>LIABILITIES</b>				
Debenture balance.....				2,623.27
Accounts payable.....		1,199.94	12.00	120.33
Bank overdraft.....		52,894.44		41.25
Other liabilities.....				
Total liabilities.....		54,094.38	12.00	2,784.85
<b>RESERVES</b>				
For equity in H-E.P.C. systems.....	5,820.01	397,788.42	19,706.55	12,953.60
For depreciation.....	4,363.57	228,813.49	5,160.98	13,385.73
Other reserves.....	125.00	3,729.50		
Total reserves.....	10,308.58	630,331.41	24,867.53	26,339.33
<b>SURPLUS</b>				
Debentures paid.....	3,500.00	275,000.00	7,500.00	14,376.73
Local sinking fund.....	9,588.04	377,442.62	10,265.44	14,790.46
Operating surplus.....				
Total surplus.....	13,088.04	652,442.62	17,765.44	29,167.19
Total liabilities, reserves and surplus.....	23,396.62	1,336,868.41	42,644.97	58,291.37
Percentage of net debt to total assets.....	0.0	1.5	0.1	6.1

**"A"—Continued****Hydro Municipalities as at December 31, 1944**

West Lorne 785	Weston 6,165	Westport 636	Wheatley 718	Whitby 4,531	Wiarton 1,558	Williams- burg P.V.
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
11,903.31	.....	.....	52.50	6,619.20	.....	.....
72,093.84	.....	.....	.....	34,288.16	333.57	.....
12,847.22	72,645.84	7,409.39	17,443.42	62,530.47	22,367.70	3,431.14
6,696.28	56,429.70	1,185.33	4,715.53	16,258.86	7,302.09	1,978.92
4,686.19	33,687.74	1,894.94	4,803.56	22,577.83	7,796.13	2,391.10
881.46	29,010.09	706.11	1,918.67	12,486.05	2,914.96	174.61
454.71	5,353.86	1,317.00	693.37	6,005.57	5,535.65	35.38
.....	.....	1,713.00	2,569.50	1,340.13	1,870.35	.....
25,565.86	281,124.38	14,225.77	32,196.55	162,106.27	48,120.45	8,011.15
1,931.86	3,049.20	435.91	1,164.63	4,576.99	2,080.03	130.35
10,500.00	16,500.00	6,100.00	15,000.00	37,000.00	17,000.00	24,000.00
3.76	448.19	.....	192.33	880.70	266.09	376.39
123.90	410.42	142.04	162.87	465.72	.....	.....
30,527.92	301,194.00	6,651.04	17,657.70	66,183.63	19,145.53	7,795.88
.....	.....	.....	.....	.....	.....	.....
68,653.30	602,726.19	27,554.76	66,374.08	271,213.31	86,612.10	40,313.77
.....	.....	.....	.....	.....	.....	.....
68,653.30	602,726.19	27,554.76	66,374.08	271,213.31	86,612.10	40,313.77
.....	.....	.....	.....	.....	.....	.....
181.46	5.37	7,133.20	.....	5,845.72	19,396.65	.....
.....	.....	.....	851.53	300.16	120.69	38.48
112.10	747.91	240.00	50.00	1,646.37	256.24	293.34
293.56	753.28	7,373.20	901.53	7,792.25	19,773.58	331.82
.....	.....	.....	.....	.....	.....	.....
30,527.92	301,194.00	6,651.04	17,657.70	66,183.63	19,145.53	7,795.88
12,063.86	56,548.77	2,902.99	9,820.74	34,561.36	9,897.98	4,201.84
65.12	420.16	.....	60.83	.....	2,996.25	327.28
42,656.90	358,162.93	9,554.03	27,539.27	100,744.99	32,039.76	12,325.00
.....	.....	.....	.....	.....	.....	.....
8,000.00	70,032.44	7,866.80	13,000.00	70,766.78	18,003.35	2,750.00
17,702.84	173,777.54	2,760.73	24,933.28	91,909.29	16,795.41	24,906.95
25,702.84	243,809.98	10,627.53	37,933.28	162,676.07	34,798.76	27,656.95
68,653.30	602,726.19	27,554.76	66,374.08	271,213.31	86,612.10	40,313.77
0.8	0.2	35.3	1.9	3.8	29.3	1.0

## STATEMENT

## Balance Sheets of Electrical Departments of

## SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Winchester 1,029	Winder-mere 118	Windsor 109,948	Wingham 2,058	Wood-bridge 1,019
Population.....					
ASSETS					
Lands and buildings.....	\$ 299.85	\$ 597,504.45	\$ 21,513.45		
Substation equipment.....		1,353,455.05	4,863.91		
Distribution system—overhead.....	10,552.78	9,898.48	1,375,507.15	41,588.50	19,499.78
Distribution system—underground.....			219,152.01		
Line transformers.....	4,906.59	3,492.70	605,774.43	19,852.92	6,219.55
Meters.....	6,114.24	1,235.36	582,948.14	16,986.55	6,590.80
Street light equipment, regular.....	719.87	247.26	99,747.50	11,293.89	624.03
Street light equipment, ornamental.....			1,021,495.33		
Miscellaneous construction expense.....	315.52	536.29	172,442.96	5,023.15	708.10
Steam or hydraulic plant.....				14,711.99	
Old plant.....	1,100.00		166,440.66	12,320.02	
Total plant.....	24,008.85	15,410.09	6,194,194.68	148,154.38	33,642.26
Bank and cash balance.....	2,458.68	580.35	1,075.00	30.00	2,773.88
Securities and investments.....	10,500.00	4,400.00	1,341,609.84		12,000.00
Accounts receivable.....	31.54	111.32	127,535.91	1,958.04	121.46
Inventories.....			198,172.12	4,675.53	
Sinking fund on local debentures.....			76,340.29		
Equity in H-E.P.C. systems.....	24,393.92	3,191.56	3,831,390.46	48,297.10	40,537.72
Other assets.....			30,000.00		
Total assets.....	61,392.99	23,693.32	11,800,318.30	203,115.05	89,075.32
Deficit.....					
Total.....	61,392.99	23,693.32	11,800,318.30	203,115.05	89,075.32
LIABILITIES					
Debenture balance.....		5,944.35	329,319.40	16,869.37	554.35
Accounts payable.....		47.19	127,557.68	3,061.94	129.29
Bank overdraft.....			140,634.70	527.89	
Other liabilities.....	10.00		1,162,021.88	1,282.15	604.28
Total liabilities.....	10.00	5,991.54	1,759,533.66	21,741.35	1,287.92
RESERVES					
For equity in H-E.P.C. systems.....	24,393.92	3,191.56	3,831,390.46	48,297.10	40,537.72
For depreciation.....	11,770.08	4,505.37	1,737,094.54	42,980.86	13,148.98
Other reserves.....			576,837.38		5,200.00
Total reserves.....	36,164.00	7,696.93	6,145,322.38	91,277.96	58,886.70
SURPLUS					
Debentures paid.....	10,650.00	5,818.95	2,254,512.65	79,236.13	7,945.62
Local sinking fund.....			76,340.29		
Operating surplus.....	14,568.99	4,185.90	1,564,609.32	10,859.61	20,955.08
Total surplus.....	25,218.99	10,004.85	3,895,462.26	90,095.74	28,900.70
Total liabilities, reserves and surplus.	61,392.99	23,693.32	11,800,318.30	203,115.05	89,075.32
Percentage of net debt to total assets.	0.0	29.2	9.6	14.0	2.7

**"A"—Continued****Hydro Municipalities as at December 31, 1944**

Woodstock 12,745	Woodville 415	Wyoming 494	York Twp. V.A.	Zurich P.V.	SOUTHERN ONTARIO SYSTEM SUMMARY
\$      c. 41,780.85	\$      c. .....	\$      c. 50.00	\$      c. 75,981.47	\$      c. .....	\$      c. 11,011,709.55
133,098.19			344,736.82		25,138,149.79
134,718.79	3,539.72	11,202.29	806,796.50	7,373.89	24,733,203.17
					6,385,742.19
76,424.09	2,167.24	2,900.88	346,101.20	2,844.27	12,290,850.67
69,077.25	2,234.83	3,229.81	357,567.41	2,808.75	10,881,318.03
22,811.36	521.83	548.49	58,811.39	471.82	2,643,616.36
					1,542,819.42
4,498.39	257.51	864.52	46,769.15	376.45	3,342,456.40
					43,018.94
	2,182.50			150.00	820,607.24
482,408.92	10,903.63	18,795.99	2,036,763.94	14,025.18	98,833,491.76
5,630.12	529.23	635.19	17,474.32	1,460.27	1,845,325.74
133,500.00	5,000.00	2,500.00	270,300.00	9,500.00	19,854,668.89
2,086.94	636.88	20.08	68,770.13	120.37	3,588,617.46
322.18			33,553.50		1,536,413.40
					4,759,820.70
514,299.46	12,290.71	10,195.74	937,002.00	16,473.76	65,837,399.13
132.20	166.27				187,106.63
1,138,379.82	29,526.72	32,147.00	3,363,863.89	41,579.58	196,442,843.71
					17,351.17
1,138,379.82	29,526.72	32,147.00	3,363,863.89	41,579.58	196,460,194.88
			82,285.72	1,055.30	11,143,404.37
999.20	355.23	529.51	58,483.65	855.94	1,585,581.33
					174,491.81
9,430.00	17.00	111.06	32,386.86	10.00	2,484,860.92
10,429.20	372.23	640.57	173,156.23	1,921.24	15,394,338.48
514,299.46	12,290.71	10,195.74	937,002.00	16,473.76	65,837,399.13
231,979.95	3,842.16	6,460.47	771,317.70	7,815.89	32,676,960.10
43,840.58	957.22		14,449.14		5,858,040.15
790,119.99	17,090.09	16,656.21	1,722,768.84	24,289.65	104,372,399.38
127,385.63	5,500.00	9,700.00	407,088.93	4,536.31	44,186,095.93
					4,759,820.70
210,445.00	6,564.40	5,150.22	1,060,849.89	10,832.38	27,747,540.39
337,830.63	12,064.40	14,850.22	1,467,938.82	15,368.69	76,693,457.02
1,138,379.82	29,526.72	32,147.00	3,363,863.89	41,579.58	196,460,194.88
1.7	2.1	2.9	7.1	7.7	7.3

## STATEMENT

## Balance Sheets of Electrical Departments of

## THUNDER BAY SYSTEM

Municipality.....	Fort William 29,061	Nipigon Twp. V.A.	Port Arthur 24,424	THUNDER BAY SYSTEM SUMMARY
Population.....				
ASSETS				
Lands and buildings.....	\$ 102,653.57	c. 215.03	\$ 466,837.65	\$ 569,706.25
Substation equipment.....	154,707.82		311,619.97	466,327.79
Distribution system—overhead.....	246,775.03	18,666.21	520,228.91	785,670.15
Distribution system—underground.....				
Line transformers.....	103,426.89	5,453.41	121,589.68	230,469.98
Meters.....	98,097.27	4,588.09	120,777.41	223,462.77
Street light equipment, regular.....	48,734.97	2,436.86	83,469.00	134,640.83
Street light equipment, ornamental.....				
Miscellaneous construction expense.....	14,767.43	160.10	34,089.39	49,016.92
Steam or hydraulic plant.....			325,003.44	325,003.44
Old plant.....				
Total plant.....	769,162.98	31,519.70	1,983,615.45	2,784,298.13
Bank and cash balance.....	13,439.57	756.84	33,223.51	47,419.92
Securities and investments.....	189,550.00	9,000.00	787,901.78	986,451.78
Accounts receivable.....	33,722.96	63.26	52,464.36	86,250.58
Inventories.....	26,205.12		21,609.79	47,814.91
Sinking fund on local debentures.....	120,679.07			120,679.07
Equity in H-E.P.C. systems.....	936,842.57	8,825.92	2,703,480.39	3,649,148.88
Other assets.....	5,150.00		281.49	5,431.49
Total assets.....	2,094,752.27	50,165.72	5,582,576.77	7,727,494.76
Deficit.....				
Total.....	2,094,752.27	50,165.72	5,582,576.77	7,727,494.76
LIABILITIES				
Debenture balance.....	250,000.00			250,000.00
Accounts payable.....	35,704.14	37.80	44,725.32	80,467.26
Bank overdraft.....				
Other liabilities.....	34,009.27	115.84		34,125.11
Total liabilities.....	319,713.41	153.64	44,725.32	364,592.37
RESERVES				
For equity in H-E.P.C. systems.....	936,842.57	8,825.92	2,703,480.39	3,649,148.88
For depreciation.....	191,085.90	6,086.37	745,987.80	943,160.07
Other reserves.....	62,685.83	2,500.00	144,449.12	209,634.95
Total reserves.....	1,190,614.30	17,412.29	3,593,917.31	4,801,943.90
SURPLUS				
Debentures paid.....	124,209.11	10,000.00	642,100.00	776,309.11
Local sinking fund.....	120,679.07			120,679.07
Operating surplus.....	339,536.38	22,599.79	1,301,834.14	1,663,970.31
Total surplus.....	584,424.56	32,599.79	1,943,934.14	2,560,958.49
Total liabilities, reserves and surplus.....	2,094,752.27	50,165.72	5,582,576.77	7,727,494.76
Percentage of net debt to total assets....	19.1	0.3	1.6	6.2

**"A"—Concluded****Hydro Municipalities as at December 31, 1944****NORTHERN ONTARIO DISTRICTS**

Capreol 1,663	North Bay 15,933	Sioux Lookout 1,734	Sudbury 34,020	NORTHERN ONTARIO DISTRICTS SUMMARY	ALL SYSTEMS GRAND SUMMARY
\$ 450.00	\$ 58,115.49	\$ 73,127.45	\$ 131,692.94	\$ 11,713,108.74	
9,730.32	71,129.06	120,007.14	200,866.52	25,805,344.10	
13,629.47	149,775.42	383,786.38	556,543.45	26,075,416.77	6,385,742.19
5,696.62	45,572.47	3,876.01	121,614.46	176,759.56	12,698,080.21
5,457.84	81,761.05	6,111.11	141,368.84	234,698.84	11,339,479.64
1,126.26	28,670.88	1,794.15	116,517.22	148,108.51	2,926,365.70
882.04	6,416.78	899.00	14,886.11	23,083.93	3,414,557.25
					368,022.38
					820,607.24
36,972.55	441,441.15	22,032.45	971,307.60	1,471,753.75	103,089,543.64
277.36	10,762.62	3,030.09	40,257.63	54,327.70	1,947,073.36
10,000.00	121,000.00		273,500.00	404,500.00	21,245,620.67
34.28	13,040.05	1,324.57	21,247.82	35,646.72	3,710,514.76
	10,261.08	424.79	27,952.39	38,638.26	1,622,866.57
	93.84		29.50	123.34	4,880,499.77
					69,486,548.01
					192,661.46
47,284.19	596,598.74	26,811.90	1,334,294.94	2,004,989.77	206,175,328.24
					17,351.17
47,284.19	596,598.74	26,811.90	1,334,294.94	2,004,989.77	206,192,679.41
	135,000.00		77,954.73	212,954.73	11,612,359.10
83.53	1,060.25	600.33	33,627.95	35,372.06	1,701,420.70
					174,491.81
455.00	29,506.11	2,470.80	33,561.32	65,993.23	2,584,979.26
538.53	165,566.36	3,071.13	145,144.00	314,320.02	16,073,250.87
7,281.84	238,027.55	2,138.33	139,385.48	386,833.20	69,486,548.01
96.09	51,841.85	162.69	188,821.09	240,921.72	34,006,953.37
					6,308,596.82
7,377.93	289,869.40	2,301.02	328,206.57	627,754.92	109,802,098.20
19,000.00	105,000.00		389,383.80	513,383.80	45,475,788.84
					4,880,499.77
20,367.73	36,162.98	21,439.75	471,560.57	549,531.03	29,961,041.73
39,367.73	141,162.98	21,439.75	860,944.37	1,062,914.83	80,317,330.34
47,284.19	596,598.74	26,811.90	1,334,294.94	2,004,989.77	206,192,679.41
1.1	27.75	11.4	10.9	15.7	7.4

## STATEMENT

## Detailed Operating Reports of Electrical Departments of

## SOUTHERN ONTARIO SYSTEM

Municipality.....	Acton	Agincourt	Ailsa Craig 446	Alexandria	Alliston
Population.....	1,927	P.V.		1,975	1,504
EARNINGS		\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	14,521.65	6,067.83	2,901.51	7,783.74	13,432.94
Commercial light service.....	5,261.47	1,323.01	1,039.02	4,645.23	7,900.49
Commercial power service.....	32,753.26	818.16	1,657.75	4,420.85	3,153.54
Municipal power.....	596.24			911.94	998.27
Street lighting.....	1,722.63	792.00	623.76	1,769.03	1,762.27
Merchandise.....	326.76				
Miscellaneous.....	572.11	507.52	364.34	1,083.98	540.91
Total earnings.....	55,754.12	9,508.52	6,586.38	20,614.77	27,788.42
EXPENSES					
Power purchased.....	44,723.98	4,998.02	4,624.93	9,934.30	13,460.85
Substation operation.....					
Substation maintenance.....					
Distribution system, operation and maintenance.....	3,327.52	133.37	64.10	1,644.98	1,328.27
Line transformer maintenance.....	174.28			52.08	82.71
Meter maintenance.....	397.42	93.47	9.93	183.49	241.04
Consumers' premises expenses.....	321.45	8.20			37.05
Street lighting, operation and maintenance.....	442.59	62.72	66.35	213.87	301.77
Promotion of business.....					
Billing and collecting.....	1,349.96	598.98	288.56	870.12	838.63
General office, salaries and expenses.....	508.32	122.28	125.80	1,180.51	510.27
Undistributed expenses.....	645.39		18.80	125.30	169.49
Truck operation and maintenance.....	103.35			160.91	
Interest.....					521.39
Sinking fund and principal payments on debentures.....					1,904.81
Depreciation.....	1,759.00	561.00	383.00	1,230.00	1,183.00
Other reserves.....					3,600.00
Total operating costs and fixed charges.....	53,753.26	6,578.04	5,581.47	15,595.56	24,179.28
Net surplus.....	2,000.86	2,930.48	1,004.91	5,019.21	3,609.14
Net loss.....					
NUMBER OF CONSUMERS					
Domestic service.....	544	168	147	415	447
Commercial light service.....	87	28	33	96	116
Power service.....	20	2	4	16	18
Total.....	651	198	184	527	581

**"B"****Hydro Municipalities for Year Ended December 31, 1944**

Alvinston 648	Amherst- burg 2,709	Ancaster Twp.	Apple Hill P.V.	Arkona 368	Arnprior 4,027	Arthur 896
\$   c.	\$   c.	\$   c.	\$   c.	\$   c.	\$   c.	\$   c.
3,655.19	24,745.57	14,077.52	1,400.35	3,135.18	20,059.47	5,753.43
1,820.50	9,060.40	4,174.45	941.42	1,497.72	9,536.06	4,870.27
820.78	11,280.81	708.06	544.34	379.35	17,389.72	1,214.77
250.24	.....	260.49	.....	.....	2,423.40	438.10
1,496.35	2,002.00	1,093.21	477.25	1,015.56	2,957.76	1,323.00
313.52	1,061.30	126.25	125.00	49.01	930.13	115.00
8,356.58	48,150.07	20,439.98	3,488.36	6,076.82	53,296.54	13,714.57
4,205.36	29,039.87	10,474.81	2,035.24	2,756.45	30,561.25	7,290.93
363.78	1,189.51	1,684.66	121.44	169.77	741.30	702.49
.....	12.30	104.80	.....	.....	46.60	.....
57.11	193.62	208.80	42.89	39.70	431.79	98.50
.....	1,077.97	165.36	.....	.....	57.63	.....
98.02	560.47	355.34	83.30	87.13	343.85	179.21
.....	70.92	.....	.....	22.50	.....	.....
383.61	993.06	1,336.90	251.00	235.78	2,577.44	.....
275.44	767.34	889.82	59.84	142.60	2,501.60	688.00
57.94	69.91	105.12	.....	11.46	27.50	39.48
.....	170.22	.....	.....	.....	.....	.....
.....	446.32	339.27	.....	116.41	800.07	434.42
.....	2,351.66	870.66	.....	1,014.95	2,938.44	1,353.86
568.00	1,752.00	826.00	152.00	473.00	1,430.00	925.00
.....	4,700.00	13.68	.....	.....	.....	.....
6,009.26	43,395.17	17,375.22	2,745.71	5,069.75	42,457.47	11,711.89
2,347.32	4,754.91	3,064.76	742.65	1,007.07	10,839.07	2,002.68
205	734	394	66	117	891	199
53	130	45	22	33	140	84
4	16	9	2	2	20	7
262	880	448	90	152	1,051	290

## STATEMENT

## Detailed Operating Reports of Electrical Departments of

## SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Athens	Aurora	Aylmer	Ayr	Baden
Population.....	641	2,914	2,474	693	P.V.
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	3,542.48	22,192.81	16,090.66	6,615.87	4,286.98
Commercial light service.....	1,599.40	6,136.13	10,256.71	2,053.36	2,034.80
Commercial power service.....	983.70	15,669.67	7,192.15	676.04	10,598.35
Municipal power.....		1,733.66	1,151.30		
Street lighting.....	1,065.26	3,514.04	2,435.97	1,106.50	769.33
Merchandise.....	232.65	211.58	1,092.98	98.75	133.55
Miscellaneous.....					
Total earnings.....	7,423.49	49,457.89	38,219.77	10,550.52	17,823.01
EXPENSES					
Power purchased.....	4,685.84	36,146.11	23,809.96	7,487.42	15,202.68
Substation operation.....					
Substation maintenance.....					
Distribution system, operation and maintenance.....	167.79	1,464.50	1,944.83	564.38	383.06
Line transformer maintenance.....		76.79			
Meter maintenance.....	18.24	733.65	63.99		39.00
Consumers' premises expenses.....		24.86	453.16		
Street lighting, operation and maintenance.....	15.64	267.78	527.96	173.33	82.00
Promotion of business.....			24.77		
Billing and collecting.....	256.90	1,413.92	1,377.45	611.80	292.59
General office, salaries and expenses.....	76.99	677.18	1,308.61	158.06	206.99
Undistributed expenses.....	1.66	106.49	339.96	43.67	9.29
Truck operation and maintenance.....		696.59	220.91		
Interest.....	276.52	14.93	336.11	117.39	
Sinking fund and principal payments on debentures.....	896.35		1,261.11	598.02	
Depreciation.....	400.00	1,785.00	2,316.00	510.00	633.00
Other reserves.....			2,024.16		
Total operating costs and fixed charges.....	6,795.93	43,407.80	36,008.98	10,264.07	16,848.61
Net surplus.....	627.56	6,050.09	2,210.79	286.45	974.40
Net loss.....					
NUMBER OF CONSUMERS					
Domestic service.....	183	793	758	227	168
Commercial light service.....	45	113	148	44	31
Power service.....	1	19	15	4	3
Total.....	229	925	921	275	202

**"B"—Continued****Hydro Municipalities for Year Ended December 31, 1944**

Barrie	Bath	Beachville	Beamsville	Beaverton	Beeton	Belle River
10,339	293	P.V.	1,295	839	514	765
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
91,647.34	2,788.01	4,017.65	12,597.35	7,175.78	3,396.53	6,030.69
42,847.82	545.42	603.09	5,032.15	2,271.54	1,948.16	2,925.70
29,703.61	.....	18,537.54	2,311.42	928.83	3,321.50	1,390.70
1,859.71	.....	.....	.....	.....	.....	.....
5,829.80	316.23	445.18	1,942.32	1,149.74	1,167.43	1,010.00
88.87	.....	.....	.....	.....	.....	.....
926.10	.....	475.83	420.60	315.72	272.43	242.46
172,903.25	3,649.66	24,079.29	22,303.84	11,841.61	10,106.05	11,599.55
106,470.39	1,918.26	20,430.19	11,061.45	8,698.30	4,691.20	5,752.16
637.26	.....	.....	.....	.....	.....	.....
157.46	.....	.....	.....	.....	.....	.....
6,813.05	99.76	54.08	377.67	980.37	261.51	1,156.28
118.48	.....	.....	.....	5.60	.....	323.40
921.81	.....	44.25	.....	.65	105.15	177.83
348.64	.....	.....	57.05	.....	.....	21.00
941.00	18.00	88.20	203.82	115.43	154.02	183.85
43.50	.....	.....	.....	.....	.....	.....
7,178.45	160.25	340.34	786.13	790.67	168.34	854.66
3,316.78	141.00	186.38	409.80	504.98	136.61	471.79
516.45	.....	5.90	5.81	28.46	.....	55.42
645.86	.....	.....	.....	.....	.....	.....
275.48	239.98	.....	58.43	.....	217.50	.....
1,747.71	387.62	.....	1,593.44	.....	764.54	.....
10,939.88	296.00	553.00	1,068.00	1,042.00	551.00	705.00
14,795.94	.....	.....	.....	.....	1,500.00	.....
155,868.14	3,260.87	21,702.34	15,621.60	12,166.46	8,549.87	9,701.39
17,035.11	388.79	2,376.95	6,682.24	.....	1,556.18	1,898.16
				324.85	.....	.....
2,471	64	167	399	331	148	314
414	9	22	70	62	33	46
60	.....	4	6	8	4	2
2,945	73	193	475	401	185	362

**STATEMENT****Detailed Operating Reports of Electrical Departments of****SOUTHERN ONTARIO SYSTEM—Continued**

Municipality . . . . .	Belleville	Blenheim	Bloomfield	Blyth	Bolton
Population . . . . .	14,969	1,765	581	632	591
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service . . . . .	106,108.78	9,788.19	3,504.85	3,785.02	4,957.64
Commercial light service . . . . .	57,064.99	8,023.19	2,399.34	1,973.74	2,072.00
Commercial power service . . . . .	55,034.88	6,065.40	1,266.36	921.39	2,817.34
Municipal power . . . . .	3,958.08	1,707.56	—	—	140.04
Street lighting . . . . .	10,202.18	2,405.70	749.85	1,382.60	992.87
Merchandise . . . . .	2,477.00	—	—	—	—
Miscellaneous . . . . .	4,657.55	724.62	177.50	262.00	377.50
Total earnings . . . . .	239,503.46	28,714.66	8,097.90	8,324.75	11,357.39
EXPENSES					
Power purchased . . . . .	170,861.38	15,924.64	4,522.06	5,328.89	6,407.14
Substation operation . . . . .	2,003.97	—	—	—	—
Substation maintenance . . . . .	—	—	—	—	—
Distribution system, operation and maintenance . . . . .	1,915.05	860.96	152.52	645.36	510.84
Line transformer maintenance . . . . .	326.24	245.13	—	—	—
Meter maintenance . . . . .	568.23	228.52	44.12	28.36	96.30
Consumers' premises expenses . . . . .	1,845.78	135.54	—	4.80	147.00
Street lighting, operation and maintenance . . . . .	2,068.44	354.03	118.14	145.22	77.50
Promotion of business . . . . .	—	101.38	—	—	—
Billing and collecting . . . . .	3,498.35	1,842.20	245.70	409.00	—
General office, salaries and expenses . . . . .	6,093.21	1,362.52	101.84	79.06	727.03
Undistributed expenses . . . . .	1,825.37	54.99	—	47.36	23.19
Truck operation and maintenance . . . . .	—	—	—	—	—
Interest . . . . .	—	111.87	146.89	—	29.64
Sinking fund and principal payments on debentures . . . . .	—	905.20	434.30	—	588.42
Depreciation . . . . .	10,929.00	2,580.00	421.00	407.00	473.00
Other reserves . . . . .	—	2,000.00	—	—	—
Total operating costs and fixed charges . . . . .	201,935.02	26,706.98	6,186.57	7,095.05	9,080.06
Net surplus . . . . .	37,568.44	2,007.68	1,911.33	1,229.70	2,277.33
Net loss . . . . .	—	—	—	—	—
NUMBER OF CONSUMERS					
Domestic service . . . . .	3,939	560	181	184	172
Commercial light service . . . . .	636	146	41	45	43
Power service . . . . .	105	17	8	4	10
Total . . . . .	4,680	723	230	233	225

## “B”—Continued

## Hydro Municipalities for Year Ended December 31, 1944

Bothwell 605	Bowmanville 3,800	Bradford 992	Brampton 6,146	Brantford 32,778	Brantford Twp. V.A.
\$   c.	\$   c.	\$   c.	\$   c.	\$   c.	\$   c.
2,639.30	33,841.77	7,100.78	50,124.01	199,643.13	36,185.92
2,017.87	10,705.24	4,087.28	19,361.35	83,520.33	4,845.37
749.56	67,888.38	3,256.50	20,992.80	346,256.83	6,802.61
140.04	.....	420.74	2,470.38	10,518.25	.....
1,090.50	3,644.38	1,028.46	6,297.51	30,233.19	4,013.36
2.40	.....	.....	69.22	.....	.....
605.30	3,059.79	270.28	962.18	10,048.97	59.06
7,244.97	119,139.56	16,164.04	100,277.45	680,220.70	51,906.32
4,388.87	73,028.51	7,455.34	67,234.38	526,233.18	31,910.38
.....	94.91	.....	.....	8,506.81	.....
.....	.....	.....	229.73	2,328.04	.....
107.93	2,655.66	1,078.19	2,654.98	10,069.47	2,058.79
.....	51.12	142.75	178.67	850.09	407.47
196.69	705.67	272.70	677.99	6,200.80	566.59
.....	259.04	.....	1,588.35	5,068.22	15.20
150.07	478.21	270.48	1,432.70	3,804.39	1,036.26
.....	124.74	.....	.....	181.00	.....
335.01	3,004.37	538.82	3,112.95	8,441.93	2,382.96
177.06	2,857.31	444.47	2,279.59	11,625.86	3,150.08
1.67	433.26	285.58	241.40	6,503.26	384.19
.....	.....	224.03	609.14	2,279.19	1,182.47
42.96	.....	419.46	.....	1,075.00	.....
323.29	.....	1,277.20	.....	6,250.00	.....
456.00	3,207.00	832.00	4,234.00	26,330.00	3,859.00
.....	.....	1,500.00	7,500.00	.....	.....
6,179.55	86,899.80	14,741.02	91,973.88	625,747.24	46,953.39
1,065.42	32,239.76	1,423.02	8,303.57	54,473.46	4,952.93
.....	.....	.....	.....	.....	.....
185	1,234	291	1,627	8,337	1,476
51	157	71	248	1,236	69
7	27	12	51	210	5
243	1,418	374	1,926	9,783	1,550

## STATEMENT

## Detailed Operating Reports of Electrical Departments of

## SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Brechin P.V.	Bridge- port P.V.	Brigden P.V.	Brighton 1,517	Brock- ville 10,463
<b>EARNINGS</b>					
Domestic service.....	\$ 1,456.03	5,664.97	2,435.25	12,029.66	67,556.49
Commercial light service.....	630.55	1,270.84	1,809.54	4,258.47	27,298.29
Commercial power service.....	811.86	306.12	1,067.46	6,774.56	53,197.25
Municipal power.....					6,914.10
Street lighting.....	476.00	876.00	794.88	1,944.12	8,828.50
Merchandise.....	15.00	177.66	239.15	345.00	42.13
Miscellaneous.....					5,630.69
Total earnings.....	3,389.44	8,295.59	6,346.28	25,351.81	169,467.45
<b>EXPENSES</b>					
Power purchased.....	2,135.71	4,042.49	3,374.15	12,499.17	125,411.61
Substation operation.....					6,026.64
Substation maintenance.....					1,265.76
Distribution system, operation and maintenance.....	183.80	257.88	265.01	1,882.82	4,087.35
Line transformer maintenance.....				90.49	432.62
Meter maintenance.....			3.81	268.82	2,302.28
Consumers' premises expenses.....				87.82	.....
Street lighting, operation and maintenance.....	48.45	36.23	134.69	318.93	883.67
Promotion of business.....			1.50		.....
Billing and collecting.....		503.44	344.02	966.59	3,143.32
General office, salaries and expenses.....	444.32	16.10	188.47	1,709.03	5,842.06
Undistributed expenses.....		7.34	1.62	255.80	1,623.93
Truck operation and maintenance.....				312.10	650.69
Interest.....	140.67	213.40		204.38	.....
Sinking fund and principal payments on debentures.....	175.27	990.24		1,628.16	.....
Depreciation.....	120.00	423.00	346.00	970.00	6,104.00
Other reserves.....					.....
Total operating costs and fixed charges.....	3,248.22	6,490.12	4,659.27	21,194.11	157,773.93
Net surplus.....	141.22	1,805.47	1,687.01	4,157.70	11,693.52
Net loss.....					.....
<b>NUMBER OF CONSUMERS</b>					
Domestic service.....	53	178	125	563	3,101
Commercial light service.....	22	21	38	95	395
Power service.....	3	3	4	9	74
Total.....	78	202	167	667	3,570

**"B"—Continued****Hydro Municipalities for Year Ended December 31, 1944**

Brussels 776	Burford P.V.	Burgessville P.V.	Caledonia 1,410	Campbell- ville P.V.	Cannington 731	Cardinal 1,633
\$   c.	\$   c.	\$   c.	\$   c.	\$   c.	\$   c.	\$   c.
4,834.81	5,902.33	1,914.97	7,326.01	1,340.64	5,895.77	9,048.58
3,353.83	1,833.73	568.30	5,057.91	515.77	2,155.75	2,263.75
1,093.74	1,326.96	257.80	2,633.50	385.51	2,640.76	322.42
1,197.00	622.80	312.00	1,846.11	382.00	1,132.71	932.00
403.79	344.43	87.18	301.04	145.21	143.89	188.75
10,883.17	10,030.25	3,140.25	17,164.57	2,769.13	12,024.33	12,755.50
5,599.89	5,820.12	1,577.65	9,262.76	1,701.21	6,722.02	8,482.85
597.14	351.62	67.09	1,006.89	.....	465.24	899.73
40.46	10.60	4.65	11.07	234.40	310.58	87.42
485.93	.....	.....	.....	485.93	.....	.....
146.36	96.07	48.78	358.58	42.19	106.72	105.63
9.00	.....	.....	.....	9.00	.....	.....
406.75	.....	.....	1,443.07	.....	511.51	497.41
703.42	306.13	202.32	1,619.23	137.83	472.21	259.65
52.09	12.37	.....	140.98	.....	22.09	.....
349.00	.....	.....	.....	349.00	.....	.....
.....	.....	.....	.....	.....	42.89	326.96
.....	.....	.....	.....	.....	782.77	855.41
570.00	403.00	198.00	1,033.00	105.00	677.00	588.00
1,000.00	.....	.....	.....	.....	.....	.....
7,709.36	8,406.66	2,098.49	15,953.91	1,986.23	10,090.94	12,125.15
3,173.81	1,623.59	1,041.76	1,210.66	782.90	1,933.39	630.35
.....	.....	.....	.....	.....	.....	.....
256	235	64	452	50	262	394
69	39	17	100	11	64	53
5	5	2	12	1	8	2
330	279	83	564	62	334	449

## STATEMENT

## Detailed Operating Reports of Electrical Departments of

## SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Carleton Place	Cayuga	Chatham	Chatsworth	Chesley
Population.....	3,865	651	17,241	356	1,601
<b>EARNINGS</b>					
Domestic service.....	23,075.81	4,131.20	101,076.14	2,537.25	10,685.21
Commercial light service.....	8,821.55	3,321.21	97,301.01	1,373.88	5,930.80
Commercial power service.....	27,963.63	1,000.90	92,249.88	.....	6,582.25
Municipal power.....	1,464.27	.....	7,711.29	.....	918.85
Street lighting.....	4,806.52	1,416.98	18,594.23	533.00	2,006.72
Merchandise.....	1,684.85	198.63	3,375.86	.....	75.89
Miscellaneous.....	.....	.....	5,773.83	76.25	175.00
Total earnings.....	67,816.63	10,068.92	326,082.24	4,520.38	26,374.72
<b>EXPENSES</b>					
Power purchased.....	49,050.14	4,819.84	180,964.12	3,198.17	17,523.62
Substation operation.....	94.16	.....	9,425.21	.....	.....
Substation maintenance.....	.....	.....	3,872.79	.....	.....
Distribution system, operation and maintenance.....	1,170.34	559.55	11,481.55	54.11	757.19
Line transformer maintenance.....	87.56	72.16	905.40	.....	22.84
Meter maintenance.....	983.84	57.01	6,217.47	.....	111.76
Consumers' premises expenses.....	182.34	.....	3,436.89	.....	128.39
Street lighting, operation and maintenance.....	570.19	203.01	6,249.11	43.50	249.87
Promotion of business.....	28.11	.....	3,034.33	.....	.....
Billing and collecting.....	1,912.80	633.05	11,488.84	.....	694.83
General office, salaries and expenses.....	3,875.82	512.56	18,102.01	315.26	669.32
Undistributed expenses.....	583.48	178.88	7,549.16	15.00	76.06
Truck operation and maintenance.....	648.53	.....	2,591.32	.....	40.92
Interest.....	734.46	88.12	4,881.64	.....	.....
Sinking fund and principal payments on debentures.....	2,171.50	1,586.34	16,219.41	.....	.....
Depreciation.....	3,003.00	591.00	22,637.00	236.00	1,074.00
Other reserves.....	.....	.....	12,000.00	.....	2,500.00
Total operating costs and fixed charges.....	65,096.27	9,301.52	321,056.25	3,862.04	23,848.80
Net surplus.....	2,720.36	767.40	5,025.99	658.34	2,525.92
Net loss.....	.....	.....	.....	.....	.....
<b>NUMBER OF CONSUMERS</b>					
Domestic service.....	1,076	186	4,575	108	456
Commercial light service.....	174	68	848	29	90
Power service.....	18	7	109	.....	21
Total.....	1,268	261	5,532	137	567

**"B"—Continued****Hydro Municipalities for Year Ended December 31, 1944**

Chesterville	Chippawa	Clifford	Clinton	Cobden	Cobourg	Colborne
1,071	1,294	456	2,037	595	5,560	916
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
5,398.19	9,276.30	3,055.97	16,486.13	2,669.71	40,205.96	7,167.48
3,838.82	2,341.98	1,805.63	8,250.09	2,479.34	19,867.58	3,376.91
2,788.94		760.25	4,981.27	2,105.63	26,407.33	916.53
	1,214.72		1,677.71		1,817.86	221.48
1,053.15	1,559.74	873.18	2,663.24	703.00	5,395.80	1,282.00
14.27			819.12		105.39	1,507.82
525.00	286.91	138.37	852.94	159.22	1,417.52	156.24
13,618.37	14,679.65	6,633.40	35,730.50	8,116.90	95,217.44	14,628.46
9,063.75	7,179.97	4,444.41	20,007.20	5,094.63	58,077.42	7,145.99
			105.00			
1,159.55	844.55	51.99	1,695.68	422.59	2,736.34	1,562.88
166.08			66.92		366.53	14.00
120.96	574.85	105.00	401.58	54.81	2,321.92	207.10
20.64	71.73		141.02		273.35	
84.06	494.90	96.88	253.68	58.99	1,387.32	190.81
634.80	644.90	338.17	1,017.18	529.91	4,352.51	991.76
536.14	825.37	66.98	2,072.74	102.59	3,735.29	750.39
	200.38	22.46	289.37		808.67	97.32
	194.56		218.47		351.25	404.44
7.68		246.01		171.28	1,635.21	433.66
		305.44		729.51	5,643.09	730.25
469.00	1,016.00	270.00	1,743.00	205.00	5,417.00	497.00
			3,500.00			
12,096.58	12,213.29	5,947.34	31,511.84	7,369.31	87,112.44	13,025.60
1,521.79	2,466.36	686.06	4,218.66	747.59	8,105.00	1,602.86
248	364	130	593	160	1,443	285
68	51	33	125	48	234	72
4	1	2	17	2	47	5
320	416	165	735	210	1,724	362

## STATEMENT

## Detailed Operating Reports of Electrical Departments of

## SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Coldwater	Collingwood 6,324	Comber P.V.	Cookstown P.V.	Cottam P.V.
Population.....	549				
<b>EARNINGS</b>					
Domestic service.....	\$ 3,717.69	38,693.23	2,309.22	2,540.65	2,588.71
Commercial light service.....	1,674.08	14,492.72	1,721.01	1,244.28	1,320.09
Commercial power service.....	2,372.23	38,160.67	2,227.99	1,412.43	429.35
Municipal power.....		1,717.97			
Street lighting.....	759.00	3,713.75	663.00	782.00	433.20
Merchandise.....					
Miscellaneous.....	171.98	614.25	350.27	292.61	264.76
Total earnings.....	8,694.98	97,392.59	7,271.49	6,271.97	5,036.11
<b>EXPENSES</b>					
Power purchased.....	6,064.50	68,721.98	5,002.57	2,870.25	2,791.84
Substation operation.....		233.16			
Substation maintenance.....					
Distribution system, operation and maintenance.....	388.24	2,613.67	307.77	232.63	293.09
Line transformer maintenance.....		287.73			44.21
Meter maintenance.....	109.70	1,753.28	74.21	37.60	197.46
Consumers' premises expenses.....	7.00	12.58			
Street lighting, operation and maintenance.....	131.47	383.99	103.88	80.28	55.06
Promotion of business.....					3.75
Billing and collecting.....	684.10	2,497.53	218.88	308.65	489.72
General office, salaries and expenses.....	158.06	2,027.18	195.21	114.30	63.92
Undistributed expenses.....		565.50	7.61	1.69	18.73
Truck operation and maintenance.....		297.15			
Interest.....				161.98	111.76
Sinking fund and principal payments on debentures.....				565.50	641.37
Depreciation.....	566.00	3,823.00	421.00	459.00	343.00
Other reserves.....					
Total operating costs and fixed charges.....	8,109.07	83,216.75	6,331.13	4,831.88	5,053.91
Net surplus.....	585.91	14,175.84	940.36	1,440.09	
Net loss.....					17.80
<b>NUMBER OF CONSUMERS</b>					
Domestic service.....	159	1,650	120	119	131
Commercial light service.....	51	208	39	31	28
Power service.....	3	48	5	4	2
Total.....	213	1,906	164	154	161

**"B"—Continued**

**Hydro Municipalities for Year Ended December 31, 1944**

Courtright 313	Creemore 628	Dashwood P.V.	Delaware P.V.	Delhi 2,093	Deseronto 1,052	Dorchester P.V.
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
1,609.21	3,661.31	2,281.79	2,230.08	13,060.92	9,333.20	3,179.71
701.18	1,894.33	1,469.83	670.99	9,928.39	3,677.87	951.04
.....	1,386.77	1,325.96	.....	6,862.37	1,204.83	627.06
974.64	.....	.....	.....	.....	876.73	.....
597.28	607.20	460.38	257.72	2,409.68	1,662.00	740.00
.....	.....	.....	.....	.....	.....	.....
216.75	167.50	220.88	69.70	1,069.34	213.66	214.24
.....	.....	.....	.....	.....	.....	.....
4,099.06	7,717.11	5,758.84	3,228.49	33,330.70	16,968.29	5,712.05
.....	.....	.....	.....	.....	.....	.....
1,766.78	5,338.98	3,574.37	2,032.83	15,445.34	7,873.15	3,279.78
.....	.....	.....	.....	.....	.....	.....
178.92	190.74	242.68	20.99	1,229.65	1,289.91	143.38
.....	111.46	7.21	.....	96.65	8.40	.....
.....	.....	.....	.....	899.21	47.60	.....
.....	.....	.....	.....	207.33	.....	.....
32.40	90.00	15.00	33.63	173.36	401.40	47.41
.....	.....	.....	.....	38.25	24.65	.....
186.75	229.88	240.25	265.89	1,946.26	1,005.33	182.02
14.30	60.88	87.06	43.80	1,669.88	1,089.08	77.72
5.95	.....	.....	.....	373.44	200.57	.....
.....	.....	.....	.....	180.60	440.27	.....
2.93	.....	35.49	17.77	2,734.55	.....	26.39
.....	.....	199.24	248.30	3,423.32	.....	254.19
191.00	357.00	210.00	218.00	1,740.00	572.00	324.18
.....	75.00	.....	.....	1,500.00	.....	500.00
.....	.....	.....	.....	.....	.....	.....
2,379.03	6,453.94	4,611.30	2,881.21	31,657.84	12,952.36	4,835.07
.....	.....	.....	.....	.....	.....	.....
1,720.03	1,263.17	1,147.54	347.28	1,672.86	4,015.93	876.98
.....	.....	.....	.....	.....	.....	.....
91	176	102	71	609	395	157
20	48	28	14	155	70	29
1	3	3	.....	9	8	1
112	227	133	85	773	473	187

**STATEMENT****Detailed Operating Reports of Electrical Departments of****SOUTHERN ONTARIO SYSTEM—Continued**

Municipality.....	Drayton	Dresden	Drumbo	Dublin	Dundalk
Population.....	523	1,519	P.V.	P.V.	705
<b>EARNINGS</b>					
Domestic service.....	3,658.54	7,708.55	2,617.24	1,411.25	3,978.68
Commercial light service.....	2,088.85	5,990.49	1,009.76	1,084.22	3,078.57
Commercial power service.....	1,319.35	4,714.65	840.99	1,512.04	3,595.38
Municipal power.....		710.07			
Street lighting.....	960.00	2,104.16	582.10	488.66	991.20
Merchandise.....		118.05			
Miscellaneous.....	212.50	440.18	159.06	59.59	207.50
Total earnings.....	8,239.24	21,786.15	5,209.15	4,555.76	11,851.33
<b>EXPENSES</b>					
Power purchased.....	5,975.86	13,869.27	3,021.84	3,333.00	6,571.10
Substation operation.....					
Substation maintenance.....					
Distribution system, operation and maintenance.....	433.20	1,443.71	107.76	54.89	920.82
Line transformer maintenance.....		126.35			
Meter maintenance.....	23.94	356.21	3.42	7.43	133.00
Consumers' premises expenses.....		423.12			
Street lighting, operation and maintenance.....	100.94	281.64	62.94	60.44	272.22
Promotion of business.....					
Billing and collecting.....		1,260.33	285.79		
General office, salaries and expenses.....	478.92	891.98	74.30	318.93	854.16
Undistributed expenses.....	18.29	112.42	1.20	10.45	30.79
Truck operation and maintenance.....		201.34			
Interest.....	145.81		13.96		
Sinking fund and principal payments on debentures.....	546.68		278.77		
Depreciation.....	508.00	1,037.00	280.00	277.00	437.00
Other reserves.....					1,300.00
Total operating costs and fixed charges.....	8,231.64	20,003.37	4,129.98	4,062.14	10,519.09
Net surplus.....	7.60	1,782.78	1,079.17	493.62	1,332.24
Net loss.....					
<b>NUMBER OF CONSUMERS</b>					
Domestic service.....	167	466	90	61	210
Commercial light service.....	62	121	28	27	66
Power service.....	5	16	1	2	6
Total.....	234	603	119	90	282

**"B"—Continued****Hydro Municipalities for Year Ended December 31, 1944**

Dundas 5,257	Dunnville 4,137	Durham 1,937	Dutton 776	East York Twp.	Elmira 2,176	Elmvale P.V.
\$   c.	\$   c.	\$   c.	\$   c.	\$   c.	\$   c.	\$   c.
29,617.74	18,362.94	7,979.36	3,262.78	283,143.50	17,094.63	3,769.55
14,998.45	14,130.72	4,859.19	2,389.30	28,242.07	9,690.18	1,609.05
41,555.82	17,861.80	4,093.82	3,831.69	43,864.64	20,444.72	3,023.69
616.14	2,506.55	643.73	.....	5,177.21	3,670.84	277.24
5,392.30	3,408.90	1,422.14	936.24	22,384.84	1,916.50	634.32
.....	.....	12.10	.....	.....	.....	.....
835.72	1,706.90	415.18	352.50	985.12	1,104.64	285.96
93,016.17	57,977.81	19,425.52	10,772.51	383,797.38	53,921.51	9,599.81
.....	.....	.....	.....	.....	.....	.....
69,887.51	34,757.65	12,433.24	7,691.01	207,528.71	36,741.35	4,883.99
584.97	454.75	.....	.....	2,234.48	.....	.....
.....	.....	.....	.....	.....	.....	.....
5,710.73	3,059.38	1,837.25	499.75	12,442.35	1,937.84	512.18
234.81	67.82	68.44	5.00	401.58	9.76	.....
1,189.74	327.21	302.99	272.76	4,545.16	151.92	81.57
30.90	.....	.....	.....	5,822.78	8.19	9.50
1,016.73	790.32	505.17	254.00	3,350.82	269.68	210.19
15.00	36.00	.....	.....	.....	.....	.....
1,590.31	1,161.21	933.96	496.71	16,846.02	1,226.30	502.13
2,294.81	1,654.10	761.48	172.80	13,211.49	1,322.25	303.70
801.33	226.50	95.46	15.13	1,486.92	280.03	.....
723.46	136.14	437.86	.....	.....	203.03	.....
.....	923.68	.....	.....	6,928.81	206.67	.....
.....	4,637.24	.....	.....	24,311.41	855.40	.....
4,088.00	2,925.00	1,025.00	531.00	21,842.00	1,923.00	559.00
.....	3,500.00	.....	.....	.....	4,000.00	.....
.....	.....	.....	.....	.....	.....	.....
88,168.30	54,657.00	17,900.85	9,938.16	320,952.53	49,135.42	7,062.26
4,847.87	3,320.81	1,524.67	834.35	62,844.85	4,786.09	2,537.55
.....	.....	.....	.....	.....	.....	.....
1,458	1,063	464	234	11,918	554	191
200	210	94	63	486	118	51
39	27	12	11	45	26	8
1,697	1,300	570	308	12,449	698	250

## STATEMENT

## Detailed Operating Reports of Electrical Departments of

## SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Elmwood	Elora	Embro	Erieau	Erie Beach
Population.....	P.V.	1,167	385	234	22
EARNINGS					
Domestic service.....	\$ 1,305.33	\$ 8,478.73	\$ 4,087.04	\$ 4,506.73	\$ 1,470.45
Commercial light service.....	628.18	4,585.90	1,040.13	1,602.08	215.72
Commercial power service.....	1,269.73	4,693.41	1,049.04	2,631.40	.....
Municipal power.....	.....	.....	.....	.....	.....
Street lighting.....	335.24	1,254.34	591.40	474.00	.....
Merchandise.....	119.96	575.59	78.03	2.20	45.00
Miscellaneous.....	.....	.....	.....	.....	.....
Total earnings.....	3,658.44	19,587.97	6,845.64	9,216.41	1,731.17
EXPENSES					
Power purchased.....	2,960.41	13,196.98	4,510.70	5,220.27	768.79
Substation operation.....	.....	.....	.....	.....	.....
Substation maintenance.....	.....	.....	.....	.....	.....
Distribution system, operation and maintenance.....	19.12	1,423.99	201.20	297.07	32.46
Line transformer maintenance.....	.....	30.65	.....	22.14	11.66
Meter maintenance.....	58.45	136.18	10.09	184.85	72.01
Consumers' premises expenses.....	.....	.....	.....	16.93	2.44
Street lighting, operation and maintenance.....	46.55	272.04	190.46	32.40	.....
Promotion of business.....	.....	44.90	.....	.....	.....
Billing and collecting.....	.....	942.30	368.48	465.67	102.81
General office, salaries and expenses.....	350.11	518.97	127.86	397.36	213.20
Undistributed expenses.....	.....	230.49	.....	1.64	.43
Truck operation and maintenance.....	.....	159.61	.....	.....	.....
Interest.....	.....	.....	.....	12.05	46.63
Sinking fund and principal payments on debentures.....	.....	.....	.....	.....	241.54
Depreciation.....	202.00	981.00	420.00	366.00	126.00
Other reserves.....	.....	.....	.....	.....	.....
Total operating costs and fixed charges.....	3,636.64	17,937.11	5,828.79	7,016.38	1,617.97
Net surplus.....	21.80	1,650.86	1,016.85	2,200.03	113.20
Net loss.....	.....	.....	.....	.....	.....
NUMBER OF CONSUMERS					
Domestic service.....	72	355	125	197	79
Commercial light service.....	19	66	25	14	3
Power service.....	1	3	2	4	.....
Total.....	92	424	152	215	82

**"B"—Continued****Hydro Municipalities for Year Ended December 31, 1944**

Essex 1,959	Etobicoke Twp. V.A.	Exeter 1,627	Fergus 2,883	Finch 393	Flesherton 414	Fonthill 957
\$   c.	\$   c.	\$   c.	\$   c.	\$   c.	\$   c.	\$   c.
9,518.17	226,208.65	16,321.84	21,113.76	2,580.32	2,117.81	6,857.39
8,991.62	27,464.19	8,297.27	9,055.91	1,711.37	1,625.53	2,007.88
7,076.05	40,879.71	4,575.33	19,603.18	199.12	785.03	295.62
1,408.86	7,492.63	600.20	716.15	.....	.....	193.74
2,184.08	13,148.26	2,590.18	2,265.74	474.96	591.50	1,197.08
.....	.....	513.79	.....	.....	.66	.....
1,003.10	589.24	697.78	787.50	204.50	261.02	95.18
30,181.88	315,782.68	33,596.39	53,542.24	5,170.27	5,381.55	10,646.89
.....	.....	.....	.....	.....	.....	.....
15,949.16	205,270.12	22,420.80	34,980.46	3,834.85	2,537.36	5,109.88
.....	.....	.....	.....	.....	.....	.....
1,248.17	11,821.43	1,282.96	3,171.24	159.26	404.88	1,080.19
20.00	1,360.80	21.57	376.94	.....	.....	58.33
385.55	1,537.24	126.46	727.41	42.01	133.15	215.82
4.40	9,280.90	238.93	7.70	3.85	.....	39.12
476.89	977.58	449.67	698.23	160.43	32.60	158.24
95.70	.....	.....	4.96	.....	.....	.....
1,276.84	11,813.19	1,183.33	1,314.75	249.37	.....	682.47
1,995.30	8,478.99	1,903.81	1,436.20	116.14	466.44	365.54
419.00	3,148.78	41.43	270.65	.....	.....	7.68
378.43	2,063.22	194.68	495.15	.....	.....	.....
689.05	2,907.39	.....	228.11	151.50	33.26	210.55
859.07	11,026.75	.....	1,835.68	483.40	324.52	1,425.25
1,637.00	18,264.00	1,379.00	2,370.83	383.00	305.00	753.00
2,350.00	.....	2,000.00	800.00	.....	.....	.....
27,784.56	287,950.39	31,242.64	48,718.31	5,583.81	4,237.21	10,106.07
2,397.32	27,832.29	2,353.75	4,823.93	.....	1,144.34	540.82
.....	.....	.....	.....	413.54	.....	.....
528	6,157	544	770	107	126	300
125	311	126	118	34	45	36
17	44	15	12	1	2	5
670	6,512	685	900	142	173	341

## STATEMENT

## Detailed Operating Reports of Electrical Departments of

## SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Forest	Forest Hill	Galt	Georgetown
Population.....	1,565	12,954	15,025	2,498
<b>EARNINGS</b>				
Domestic service.....	14,253.14	220,865.09	122,554.88	21,419.12
Commercial light service.....	7,522.16	25,429.82	61,016.59	7,761.43
Commercial power service.....	4,804.63	3,009.85	169,268.39	32,271.84
Municipal power.....	1,393.74	525.02	4,616.16	717.25
Street lighting.....	2,204.16	8,431.34	13,756.00	2,674.08
Merchandise.....	439.15		518.58	
Miscellaneous.....	927.84	7,003.92	2,664.46	889.41
Total earnings.....	31,544.82	265,265.04	374,395.06	65,733.13
<b>EXPENSES</b>				
Power purchased.....	19,121.51	154,548.29	270,157.47	52,690.34
Substation operation.....			6,130.31	
Substation maintenance.....	14.00	1,080.96	297.28	
Distribution system, operation and maintenance.....	2,036.98	5,859.17	3,807.48	1,462.69
Line transformer maintenance.....		71.70	337.53	285.25
Meter maintenance.....	244.20	2,333.58	2,525.19	1,726.82
Consumers' premises expenses.....	297.15	5,791.66	2,173.56	260.59
Street lighting, operation and maintenance.....	373.58	755.50	3,211.64	612.71
Promotion of business.....			114.86	
Billing and collecting.....	935.06	5,767.53	4,012.08	2,382.09
General office, salaries and expenses.....	954.93	7,185.75	9,875.59	1,441.42
Undistributed expenses.....	229.43	1,357.77	4,204.88	238.67
Truck operation and maintenance.....	163.29	918.07	518.68	701.23
Interest.....		10,125.69	27.60	
Sinking fund and principal payments on debentures.....		16,051.89		
Depreciation.....	2,250.00	15,310.00	21,824.00	2,929.00
Other reserves.....	3,000.00			
Total operating costs and fixed charges.....	29,620.13	227,157.56	329,218.15	64,730.81
Net surplus.....	1,924.69	38,107.48	45,176.91	1,002.32
Net loss.....				
<b>NUMBER OF CONSUMERS</b>				
Domestic service.....	510	3,537	4,296	833
Commercial light service.....	135	243	500	125
Power service.....	21	26	118	28
Total.....	666	3,806	4,914	986

**"B"—Continued****Hydro Municipalities for Year Ended December 31, 1944**

Glencoe 793	Goderich 4,922	Grand Valley 608	Granton P.V.	Gravenhurst 2,063	Grimsby 1,998	Guelph 23,195
\$   c.	\$   c.	\$   c.	\$   c.	\$   c.	\$   c.	\$   c.
4,594.80	38,138.96	3,223.92	2,153.01	12,900.77	19,610.18	125,964.20
3,476.50	17,685.11	1,994.51	1,141.72	12,522.08	13,263.48	50,685.58
1,926.19	19,853.01	3,132.12	.....	15,913.62	11,967.81	128,947.35
1,554.06	3,206.24	.....	.....	906.20	2,603.50	15,782.50
1,920.30	4,540.22	780.00	370.52	2,020.75	3,249.40	18,709.32
.....	490.04	.....	.....	217.23	30.18	131.23
546.71	1,321.70	280.32	175.18	242.50	627.99	2,455.61
14,018.56	85,235.28	9,410.87	3,840.43	44,723.15	51,352.54	342,675.79
.....	.....	.....	.....	.....	.....	.....
8,044.55	53,326.36	6,008.58	2,654.78	29,894.59	22,770.82	282,843.70
2,151.15	.....	.....	.....	.....	.....	3,755.05
960.23	2,288.57	230.23	40.66	2,901.74	1,379.13	7,148.49
36.91	26.51	.....	.....	57.68	36.78	2,374.10
150.58	771.60	118.24	11.25	215.88	127.68	4,262.19
223.54	234.17	.....	.....	82.96	455.04	293.22
89.58	529.50	169.44	66.74	281.64	417.85	6,470.83
22.50	.....	.....	.....	.....	.....	.....
575.84	2,433.69	.....	347.45	1,186.23	2,935.45	7,091.95
818.18	1,944.17	731.60	88.65	837.57	1,268.72	11,428.70
68.78	263.67	14.09	.85	547.37	37.89	2,845.19
.....	295.86	.....	.....	178.15	.....	.....
.....	1,076.80	.....	28.04	.....	1,186.18	.....
.....	1,904.16	.....	226.23	.....	3,099.87	.....
906.00	5,088.00	557.00	204.00	2,101.00	1,879.00	22,822.00
500.00	6,000.00	.....	.....	3,200.00	.....	.....
12,374.19	78,356.71	7,829.18	3,668.65	41,484.81	35,594.41	351,335.42
1,644.37	6,878.57	1,581.69	171.78	3,238.34	15,758.13	.....
.....	.....	.....	.....	.....	.....	8,659.63
230	1,361	184	85	593	655	5,703
73	251	48	26	99	121	799
11	21	7	.....	16	16	141
314	1,633	239	111	708	792	6,643

## STATEMENT

## Detailed Operating Reports of Electrical Departments of

## SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Hagersville	Hamilton	Hanover	Harriston
Population.....	1,524	174,222	3,174	1,287
<b>EARNINGS</b>				
Domestic service.....	8,398.18	1,038,995.07	23,582.23	8,300.48
Commercial light service.....	6,577.15	490,427.81	9,114.13	5,324.41
Commercial power service.....	18,190.51	2,888,604.83	20,980.89	6,068.82
Municipal power.....		92,841.85	296.38	386.08
Street lighting.....	2,006.28	120,640.34	2,066.08	1,401.75
Merchandise.....			36.40	431.40
Miscellaneous.....	1,349.47	112,317.27	1,807.03	335.47
Total earnings.....	36,521.59	4,743,827.17	57,883.14	22,248.41
<b>EXPENSES</b>				
Power purchased.....	25,098.76	*3,212,880.69	35,315.76	15,237.57
Substation operation.....		78,994.44		
Substation maintenance.....		13,051.14		
Distribution system, operation and maintenance.....	2,182.18	48,958.23	1,799.73	1,565.55
Line transformer maintenance.....	31.74	5,905.67	176.79	
Meter maintenance.....	471.03	31,579.62	369.87	150.83
Consumers' premises expenses.....	5.68	40,362.94	98.76	
Street lighting, operation and maintenance.....	348.46	20,670.16	244.43	243.26
Promotion of business.....		14,171.22		
Billing and collecting.....	858.10	82,963.52	1,648.67	961.77
General office, salaries and expenses.....	661.28	59,257.36	1,407.16	349.95
Undistributed expenses.....	50.05	43,226.22	308.38	66.82
Truck operation and maintenance.....	187.00		372.62	50.73
Interest.....		33,001.76		140.14
Sinking fund and principal payments on debentures.....		226,766.50		471.54
Depreciation.....	1,003.00	175,856.34	5,007.50	904.00
Other reserves.....	2,500.00	325,000.00	1,500.00	
Total operating costs and fixed charges.....	33,397.28	4,412,645.81	48,249.67	20,142.16
Net surplus.....	3,124.31	331,181.36	9,633.47	2,106.25
Net loss.....				
<b>NUMBER OF CONSUMERS</b>				
Domestic service.....	406	43,700	850	378
Commercial light service.....	117	5,423	128	104
Power service.....	16	1,056	23	13
Total.....	539	50,179	1,001	495

\*Includes 1944 power adjustment

**"B"—Continued****Hydro Municipalities for Year Ended December 31, 1944**

Harrow	Hastings	Havelock	Hensall	Hespeler	Highgate	Holstein
1,136	719	907	659	3,023	310	P.V.
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
12,412.55	4,239.10	4,632.02	4,917.71	18,760.43	1,776.36	1,171.87
5,434.38	2,326.70	2,082.07	2,284.18	5,799.47	816.53	424.40
4,528.09	196.58	1,895.05	2,945.27	55,386.67	1,295.62	306.11
				1,096.54	30.31	
1,195.92	1,148.50	1,290.00	996.00	2,726.35	514.80	345.00
116.79						
168.25	281.89	666.52	407.10	1,273.68	170.60	121.25
23,855.98	8,192.77	10,565.66	11,550.26	85,043.14	4,604.22	2,368.63
17,841.94	4,391.00	6,406.09	6,853.28	67,157.92	3,220.35	909.74
1,262.38	612.88	774.50	585.82	3,215.13	57.91	65.36
20.25		70.15		49.00		
134.41	55.08	45.48	622.04	254.75		
261.28				88.28		
312.95	121.51	169.41	144.88	317.98	33.48	72.00
4.00						
1,139.62	488.56	653.69	429.68	1,111.21	314.00	
157.94	291.82	315.23	331.53	1,301.38	138.83	190.77
5.09	21.82		49.66	769.34	25.20	
		88.56		227.16		
	613.74		102.00	602.21		
	1,145.03		586.05	1,822.25		
1,332.00	770.00	765.00	601.00	3,692.00	335.00	111.00
22,471.86	8,511.44	9,288.11	10,305.94	80,608.61	4,124.77	1,348.87
1,384.12		1,277.55	1,244.32	4,434.53	479.45	1,019.76
	318.67					
350	238	295	210	825	107	63
83	49	52	54	88	31	11
9	3	2	14	30	5	2
442	290	349	278	943	143	76

**STATEMENT****Detailed Operating Reports of Electrical Departments of****SOUTHERN ONTARIO SYSTEM—Continued**

Municipality.....	Humber-stone 3,220	Hunts-ville 2,849	Ingersoll 5,810	Iroquois 1,037	Jarvis 539
<b>EARNINGS</b>	\$    c.	\$    c.	\$    c.	\$    c.	\$    c.
Domestic service.....	12,712.47	15,691.35	35,342.02	6,338.27	3,472.06
Commercial light service.....	4,621.86	11,203.00	17,236.49	3,742.80	2,128.64
Commercial power service.....	6,628.35	13,841.63	48,988.47	634.79	3,595.89
Municipal power.....		1,386.24	1,644.69	1,097.70	
Street lighting.....	1,489.12	2,528.00	4,542.59	848.00	858.00
Merchandise.....		8.65	387.41	192.76	
Miscellaneous.....	932.21	297.22	427.90	199.31	425.30
Total earnings.....	26,384.01	44,956.09	108,569.57	13,053.63	10,479.89
<b>EXPENSES</b>					
Power purchased.....	14,417.32	36,315.46	85,598.93	6,448.56	6,341.70
Substation operation.....					
Substation maintenance.....		688.13			
Distribution system, operation and maintenance.....	1,175.06	1,536.43	3,763.12	532.09	16.92
Line transformer maintenance.....	19.40	66.51	34.60	87.36	80.05
Meter maintenance.....	489.15	624.83	1,085.25	113.52	26.45
Consumers' premises expenses.....		142.12	1,604.67		
Street lighting, operation and maintenance.....	319.20	741.87	802.80	214.92	21.85
Promotion of business.....					
Billing and collecting.....	1,142.18	1,511.23	2,815.46	726.89	533.91
General office, salaries and expenses.....	546.57	1,829.90	3,087.36	458.44	76.40
Undistributed expenses.....	34.28	1,189.36	333.82	92.11	2.71
Truck operation and maintenance.....	146.54	403.35	1,161.07		
Interest.....	120.00				
Sinking fund and principal payments on debentures.....	2,000.00				
Depreciation.....	1,400.00	1,158.00	5,321.00	476.00	390.00
Other reserves.....	2,000.00				
Total operating costs and fixed charges.....	23,809.70	45,519.06	106,296.21	9,149.89	7,489.99
Net surplus.....	2,574.31		2,273.36	3,903.74	2,989.90
Net loss.....		562.97			
<b>NUMBER OF CONSUMERS</b>					
Domestic service.....	738	744	1,568	279	163
Commercial light service.....	79	135	224	67	41
Power service.....	12	17	45	6	2
Total.....	829	896	1,837	352	206

## "B"—Continued

## Hydro Municipalities for Year Ended December 31, 1944

Kemptville 1,140	Kincardine 2,134	Kingston 30,569	Kingsville 2,290	Kirkfield P.V.	Kitchener 35,745
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
8,789.71	15,634.72	223,097.46	15,210.03	922.40	253,378.52
5,551.89	8,215.04	141,534.95	9,234.02	918.79	129,995.40
3,797.97	11,835.61	156,489.27	5,108.98	.....	411,412.18
.....	1,566.72	14,300.69	1,067.26	.....	37,968.39
1,682.31	3,765.04	20,703.24	2,572.97	345.60	31,486.90
96.60	.....	.....	.....	.....	.....
1,113.22	662.84	8,611.62	1,542.54	50.31	6,476.05
21,031.70	41,679.97	564,737.23	34,735.80	2,237.10	870,717.44
.....	.....	.....	.....	.....	.....
11,597.85	24,834.45	321,916.14	18,435.35	1,037.32	640,337.83
.....	429.95	7,237.59	.....	.....	11,413.67
.....	.....	3,251.79	.....	.....	5,277.55
1,331.69	1,491.89	9,841.33	3,267.65	144.34	19,853.13
60.72	103.84	1,316.95	31.21	.....	3,022.16
210.62	992.29	4,771.77	377.75	.....	11,179.89
.....	.....	2,241.64	78.35	.....	4,304.21
138.00	1,184.76	4,156.94	660.63	79.50	9,905.04
.....	55.15	175.37	36.98	.....	69.47
1,098.95	1,468.01	9,047.28	2,186.69	.....	14,817.83
540.13	826.81	16,036.86	1,689.35	172.78	16,054.43
142.04	327.79	8,901.78	515.46	.....	882.87
180.09	.....	3,537.70	191.86	.....	.....
337.05	.....	888.81	1,170.44	.....	4,982.85
.....	.....	2,915.00	1,282.06	.....	31,969.83
883.00	2,051.00	39,826.00	1,814.00	206.00	52,196.00
.....	3,700.00	57,907.97	1,500.00	.....	.....
16,520.14	37,465.94	493,970.92	33,237.78	1,689.94	826,266.76
4,511.56	4,214.03	70,766.31	1,498.02	547.16	44,450.68
.....	.....	.....	.....	.....	.....
393	741	7,867	641	37	8,718
80	123	1,036	160	18	1,115
6	17	171	23	.....	285
479	881	9,074	824	55	10,118

## STATEMENT

## Detailed Operating Reports of Electrical Departments of

## SOUTHERN ONTARIO SYSTEM—Continued

Municipality . . . . .	Lakefield	Lambeth	Lanark	Lancaster	La Salle
Population . . . . .	1,314	P.V.	692	573	1,020
<b>EARNINGS</b>					
Domestic service . . . . .	7,356.25	3,740.17	2,981.24	1,980.09	9,421.05
Commercial light service . . . . .	5,041.01	1,033.46	1,654.36	1,140.85	1,171.21
Commercial power service . . . . .	7,685.27	225.10	151.95	.....	165.57
Municipal power . . . . .	.....	429.48	.....	.....	.....
Street lighting . . . . .	1,631.70	692.08	532.50	436.25	858.89
Merchandise . . . . .	456.26	115.38	219.93	32.14	147.80
Miscellaneous . . . . .	.....	.....	.....	.....	.....
Total earnings . . . . .	22,170.49	6,235.67	5,539.98	3,589.33	11,764.52
<b>EXPENSES</b>					
Power purchased . . . . .	9,790.13	3,780.53	3,405.94	2,147.19	7,701.15
Substation operation . . . . .	.....	.....	.....	.....	.....
Substation maintenance . . . . .	.....	.....	.....	.....	.....
Distribution system, operation and maintenance . . . . .	1,077.11	246.83	87.70	114.88	631.78
Line transformer maintenance . . . . .	.....	.....	.....	.....	64.29
Meter maintenance . . . . .	221.34	23.05	74.27	41.78	1.50
Consumers' premises expenses . . . . .	.....	.....	.....	.....	71.03
Street lighting, operation and maintenance . . . . .	163.44	80.87	70.37	27.89	31.66
Promotion of business . . . . .	.....	.....	.....	.....	.....
Billing and collecting . . . . .	670.02	307.87	.....	203.17	429.09
General office, salaries and expenses . . . . .	941.86	53.07	478.24	143.65	184.93
Undistributed expenses . . . . .	75.30	.....	.....	.....	7.88
Truck operation and maintenance . . . . .	210.40	.....	.....	.....	.....
Interest . . . . .	914.54	.....	.....	.....	.....
Sinking fund and principal payments on debentures . . . . .	1,650.82	.....	.....	.....	.....
Depreciation . . . . .	966.00	368.00	463.00	386.00	818.00
Other reserves . . . . .	.....	500.00	.....	.....	.....
Total operating costs and fixed charges . . . . .	16,680.96	5,360.22	4,579.52	3,064.56	9,941.31
Net surplus . . . . .	5,489.53	875.45	960.46	524.77	1,823.21
Net loss . . . . .	.....	.....	.....	.....	.....
<b>NUMBER OF CONSUMERS</b>					
Domestic service . . . . .	360	140	173	116	259
Commercial light service . . . . .	71	24	35	29	14
Power service . . . . .	10	3	1	.....	2
Total . . . . .	441	167	209	145	275

## "B"—Continued

## Hydro Municipalities for Year Ended December 31, 1944

Leamington 5,619	Lindsay 7,783	Listowel 2,993	London 81,158	London Twp. V.A.	Long Branch 5,320	Lucan 607
\$   c.	\$   c.	\$   c.	\$   c.	\$   c.	\$   c.	\$   c.
30,395.21	50,464.77	18,388.32	618,624.59	16,897.05	38,575.88	4,455.64
17,319.81	30,115.68	11,625.93	211,223.50	1,895.47	6,640.12	2,214.67
22,749.98	58,876.83	19,067.53	470,488.74	1,846.65	11,279.53	1,392.68
2,043.24	3,022.34	978.16	105,686.79		2,262.78	
5,386.33	6,105.46	4,230.00	52,825.66	1,004.25	4,376.97	1,365.96
		74.65	1,877.14			
1,969.27	2,595.21	922.83	33,588.57		957.90	343.50
79,863.84	151,180.29	55,287.42	1,494,314.99	21,643.42	64,093.18	9,772.45
54,287.72	91,670.58	44,371.28	945,105.70	14,701.33	32,367.38	5,617.18
388.79			13,305.42			
		629.64	25,800.64			
999.69	2,789.60	1,920.22	14,712.70	468.37	3,011.20	147.04
294.37	985.25	513.38	6,102.79		98.59	
476.77	1,268.55	316.16	15,828.28	32.02	503.61	24.53
40.14	1,433.74	20.45	6,928.19	409.70	506.42	130.22
1,036.79	1,890.44	780.89	9,805.97	541.80	495.98	263.13
278.64			2,419.30			
3,015.65	3,987.73	1,192.31	27,161.24	773.07	3,367.57	490.95
3,401.95	7,414.58	1,066.04	35,080.36	466.72	2,649.56	409.83
791.56	1,824.96	147.10	32,381.37	4.85	929.62	82.18
328.86	815.02	341.30	1,188.49			
	1,992.24		7,307.28	180.09	213.92	45.37
	8,173.38		11,220.79	363.09	1,463.54	442.52
3,196.00	6,162.00	2,679.00	86,365.07	809.00	3,298.00	810.00
6,000.00			100,166.55		6,000.00	
74,536.93	130,408.07	53,977.77	1,340,880.14	18,750.04	54,905.39	8,462.95
5,326.91	20,772.22	1,309.65	153,434.85	2,893.38	9,187.79	1,309.50
1,688	2,289	801	19,859	494	1,564	186
283	334	161	1,878	16	106	49
33	68	25	455	5	10	6
2,004	2,691	987	22,192	515	1,680	241

## STATEMENT

## Detailed Operating Reports of Electrical Departments of

## SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Lucknow	Lynden	Madoc	Markdale	Markham
Population.....	907	P.V.	1,106	771	1,162
<b>EARNINGS</b>					
Domestic service.....	6,175.57	3,092.43	5,686.42	3,713.79	8,943.49
Commercial light service.....	5,164.77	826.58	3,654.39	3,251.06	2,799.50
Commercial power service.....	11,465.67	781.42	1,678.44	2,314.04	2,893.79
Municipal power.....	492.12			184.49	319.47
Street lighting.....	1,284.31	414.18	1,115.00	859.00	1,293.50
Merchandise.....				.23	
Miscellaneous.....	30.18	104.34	280.41	312.53	669.52
Total earnings.....	24,612.62	5,218.95	12,414.66	10,635.14	16,919.27
<b>EXPENSES</b>					
Power purchased.....	15,454.53	3,541.12	7,641.79	5,480.48	9,711.43
Substation operation.....					
Substation maintenance.....					
Distribution system, operation and maintenance.....	419.74	83.50	784.56	720.14	1,125.10
Line & transformer maintenance.....			4.10		87.65
Meter maintenance.....	119.13		136.76	222.54	53.25
Consumers' premises expenses.....		23.06			
Street lighting, operation and maintenance.....	164.92	60.85	288.49	46.58	165.93
Promotion of business.....					
Billing and collecting.....			568.10		1,110.43
General office, salaries and expenses.....	1,578.51	256.25	553.59	848.67	20.08
Undistributed expenses.....		29.25	12.75	36.42	30.29
Truck operation and maintenance.....					
Interest.....		31.41		71.92	
Sinking fund and principal payments on debentures.....		277.87		581.92	
Depreciation.....	1,008.00	243.00	550.00	560.00	1,172.00
Other reserves.....	3,000.00			1,000.00	
Total operating costs and fixed charges.....	21,744.83	4,546.31	10,540.14	9,568.67	13,476.16
Net surplus.....	2,867.79	672.64	1,874.52	1,066.47	3,443.11
Net loss.....					
<b>NUMBER OF CONSUMERS</b>					
Domestic service.....	287	105	318	231	350
Commercial light service.....	88	17	88	71	62
Power service.....	9	2	5	9	9
Total.....	384	124	411	311	421

**"B"—Continued****Hydro Municipalities for Year Ended December 31, 1944**

Marmora 933	Martintown P.V.	Maxville 802	Meaford 2,676	Merlin P.V.	Merritton 3,189	Midland 6,579
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
4,781.29	900.63	3,528.57	15,067.31	2,403.79	20,226.90	41,198.87
2,131.53	1,143.74	2,718.32	8,765.17	2,017.07	4,674.64	18,538.62
255.59	.....	.....	9,469.42	777.51	238,677.79	79,356.44
.....	.....	.....	934.65	.....	1,941.95	2,695.13
1,298.00	159.70	1,050.12	3,170.85	657.38	3,353.76	5,968.27
99.15	.....	.....	19.13	8.71	.....	234.46
167.98	89.79	202.24	522.46	612.64	1,674.21	1,941.86
8,733.54	2,293.86	7,499.25	37,948.99	6,477.10	270,549.25	149,933.65
.....	.....	.....	.....	.....	.....	.....
4,330.05	1,456.18	4,813.21	22,346.17	2,522.21	248,600.74	118,795.46
.....	.....	.....	.....	.....	536.94	2,774.08
.....	.....	.....	.....	.....	.....	403.54
814.56	79.34	442.13	2,277.01	613.12	3,349.30	4,014.45
.....	.....	9.00	39.30	33.79	262.08	369.51
24.84	9.52	146.15	160.84	41.88	459.70	1,050.63
.....	.....	.....	88.32	106.56	.....	103.86
141.83	31.10	247.99	436.96	48.09	823.77	974.29
.....	.....	.....	.....	55.64	.....	34.93
1,028.98	160.72	357.97	1,044.63	479.58	2,346.39	2,077.23
534.48	33.45	81.77	1,018.13	240.67	2,269.81	1,775.63
56.02	.....	37.44	577.27	1.54	285.63	1,419.87
.....	.....	.....	252.49	.....	258.10	326.50
.....	.....	.....	.....	.....	62.32	.....
.....	.....	.....	.....	.....	1,133.18	.....
432.00	127.00	423.00	2,080.00	346.00	5,095.00	9,441.00
.....	.....	.....	.....	.....	.....	.....
7,362.76	1,897.31	6,558.66	30,321.12	4,489.08	265,482.96	143,560.98
1,370.78	396.55	940.59	7,627.87	1,988.02	5,066.29	6,372.67
.....	.....	.....	.....	.....	.....	.....
249	56	176	757	124	962	1,625
36	25	46	155	55	60	193
1	.....	.....	21	3	17	52
286	81	222	933	182	1,039	1,870

## STATEMENT

## Detailed Operating Reports of Electrical Departments of

## SOUTHERN ONTARIO SYSTEM—Continued

Municipality .....	Mildmay	Millbrook	Milton	Milverton	Mimico
Population.....	737	734	1,953	982	8,075
<b>EARNINGS</b>					
Domestic service.....	\$ 4,170.83	\$ 4,647.63	\$ 14,570.46	\$ 5,989.78	\$ 70,176.45
Commercial light service.....	2,828.24	1,899.06	7,385.62	4,136.60	11,380.58
Commercial power service.....	1,112.48	1,549.82	27,608.42	3,680.25	8,029.92
Municipal power.....				519.05	8,807.60
Street lighting.....	591.32	745.01	2,078.52	949.80	7,710.00
Merchandise.....			423.03		
Miscellaneous.....	286.80	57.18	2,097.49	220.40	2,886.82
Total earnings.....	8,989.67	8,898.70	54,163.54	15,495.88	108,991.37
<b>EXPENSES</b>					
Power purchased.....	4,940.85	2,926.38	38,756.88	12,192.30	65,689.40
Substation operation.....			240.00		
Substation maintenance.....					701.33
Distribution system, operation and maintenance.....	327.87	319.60	3,201.33	1,018.37	7,957.35
Line transformer maintenance.....		97.60	10.00		150.70
Meter maintenance.....	115.85	145.25	250.81	68.43	1,580.25
Consumers' premises expenses.....			61.19	10.20	2,421.60
Street lighting, operation and maintenance.....	123.42	166.18	339.31	179.87	1,422.43
Promotion of business.....					
Billing and collecting.....		735.84	975.52	741.69	3,900.40
General office, salaries and expenses.....	430.45	702.36	1,233.11	380.60	3,197.96
Undistributed expenses.....			117.54	32.91	445.38
Truck operation and maintenance.....			325.75		452.73
Interest.....	346.53	101.15	39.04		
Sinking fund and principal payments on debentures.....	698.25	477.19			
Depreciation.....	365.00	240.00	1,816.00	990.00	5,021.00
Other reserves.....			3,000.00		6,000.00
Total operating costs and fixed charges.....	7,348.22	5,911.55	50,366.48	15,614.37	98,940.53
Net surplus.....	1,641.45	2,987.15	3,797.06		10,050.84
Net loss.....				118.49	
<b>NUMBER OF CONSUMERS</b>					
Domestic service.....	184	182	555	263	2,306
Commercial light service.....	57	60	106	77	140
Power service.....	2	4	14	10	26
Total.....	243	246	675	350	2,472

**"B"—Continued****Hydro Municipalities for Year Ended December 31, 1944**

Mitchell 1,588	Moorefield P.V.	Morrisburg 1,528	Mount Brydges P.V.	Mount Forest 1,787	Napanee 3,269	Neustadt 433
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
13,518.50	1,164.65	10,270.08	2,795.07	10,192.92	28,586.42	2,275.98
6,311.77	1,663.92	5,836.10	958.59	7,632.55	17,544.12	1,184.28
5,962.57	80.49	3,492.58	922.17	6,159.11	10,667.06	611.50
1,004.12				1,044.58	519.51	
2,458.76	350.00	1,913.17	775.63	2,037.62	3,752.40	630.06
2,020.88				4.00	202.45	
1,391.22	91.12	432.42	425.74	283.90	713.13	419.23
32,667.82	3,350.18	21,944.35	5,877.20	27,354.68	61,985.09	5,121.05
21,156.72	2,309.37	8,133.24	2,883.88	18,852.88	35,686.60	1,053.54
314.04		2,319.12				
1,352.91	84.87	715.13	81.80	1,246.70	3,566.82	110.86
25.70		23.78			50.15	
612.70	26.20	207.13		148.54	456.92	
266.74					815.59	
381.52	39.58	206.01	54.82	296.31	790.36	24.80
1,074.93		939.73	282.60	764.62	2,181.73	
1,747.62	173.05	460.30	73.08	231.26	6,785.82	412.31
862.93		220.03		78.15	2,571.77	
532.69		175.47		115.58		
		603.50	15.14	161.40	0.32	
		4,692.88	275.23	1,142.92		
2,453.00	166.00	780.00	311.00	1,234.00	2,690.00	523.00
				1,500.00		
30,781.50	2,799.07	19,476.32	3,977.55	25,772.36	55,596.08	2,124.51
1,886.32	551.11	2,468.03	1,899.65	1,582.32	6,389.01	2,996.54
521	56	444	166	502	897	110
132	32	112	39	135	204	24
24	1	16	5	16	24	2
677	89	572	210	653	1,125	136

## STATEMENT

## Detailed Operating Reports of Electrical Departments of

## SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Newbury	Newcastle	New Hamburg 1,395	New Toronto 8,360	Niagara Falls 20,118
Population.....	241	767			
<b>EARNINGS</b>					
Domestic service.....	1,381.24	5,792.21	10,757.71	48,428.19	142,578.80
Commercial light service.....	455.19	2,084.61	4,659.26	18,625.71	62,576.95
Commercial power service.....	175.89	2,075.14	7,899.74	259,279.33	95,355.84
Municipal power.....				14,227.83	15,286.25
Street lighting.....	662.40	627.32	1,989.12	7,162.44	24,193.94
Merchandise.....			20.35		
Miscellaneous.....	168.75	195.00	503.00	3,614.87	5,159.04
Total earnings.....	2,843.47	10,774.28	25,829.18	351,338.37	345,150.82
<b>EXPENSES</b>					
Power purchased.....	1,292.81	4,508.88	17,290.00	304,821.83	202,500.58
Substation operation.....			240.77		10,953.13
Substation maintenance.....					
Distribution system, operation and maintenance.....	286.86	580.07	816.29	7,048.66	6,599.77
Line transformer maintenance.....		44.46		329.66	676.26
Meter maintenance.....	6.90	226.43	365.42	1,973.21	7,297.99
Consumers' premises expenses.....			49.38	111.82	2,489.44
Street lighting, operation and maintenance.....	57.96	102.89	212.31	1,378.33	3,674.65
Promotion of business.....					
Billing and collecting.....	124.50	671.91	845.50	4,807.62	8,912.69
General office, salaries and expenses.....	101.27	403.12	1,075.92	8,440.79	12,367.01
Undistributed expenses.....	0.66	34.76	347.63	1,862.89	4,667.63
Truck operation and maintenance.....			163.36	392.60	3,262.67
Interest.....					3,209.03
Sinking fund and principal payments on debentures.....					17,825.89
Depreciation.....	276.00	574.00	1,153.00	5,212.00	20,881.00
Other reserves.....			1,500.00	7,000.00	
Total operating costs and fixed charges.....	2,146.96	7,146.52	24,059.58	343,379.41	305,317.74
Net surplus.....	696.51	3,627.76	1,769.60	7,958.96	39,833.08
Net loss.....					
<b>NUMBER OF CONSUMERS</b>					
Domestic service.....	70	230	384	2,029	4,984
Commercial light service.....	18	29	101	217	729
Power service.....	1	7	12	36	111
Total.....	89	266	497	2,282	5,824

**"B"—Continued****Hydro Municipalities for Year Ended December 31, 1944**

Niagara-on-the-Lake 1,884	North York Twp. V.A.	Norwich 1,184	Norwood 694	Oil Springs 445	Omemee 464	Orangeville 2,386
\$   c.	\$   c.	\$   c.	\$   c.	\$   c.	\$   c.	\$   c.
18,327.47	247,930.37	9,765.08	5,466.21	1,962.89	3,461.76	17,172.79
7,034.21	32,926.16	4,309.38	2,434.57	1,321.09	926.61	9,872.26
5,202.49	180,910.13	1,577.76	1,394.97	5,707.93	3,325.36	6,765.67
1,227.86	6,892.36	496.45	.....	.....	.....	963.27
3,504.14	5,495.40	2,063.17	1,490.25	565.42	986.04	2,399.64
471.21	.....	655.23	.....	36.90	.....	.....
310.52	737.50	349.36	650.96	469.10	181.86	640.72
36,077.90	474,891.92	19,216.43	11,436.96	10,063.33	8,881.63	37,814.35
.....	.....	.....	.....	.....	.....	.....
19,180.21	256,342.05	11,802.96	4,641.45	5,547.36	5,531.61	26,037.75
351.92	490.16	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....
2,686.93	13,338.71	1,576.62	301.69	261.48	486.89	1,195.94
198.06	726.49	.....	.....	75.16	.....	56.23
646.14	5,451.15	190.35	21.10	95.31	130.64	369.49
605.11	1,352.25	20.66	.....	38.56	.....	124.00
863.38	1,495.27	183.83	169.38	66.25	179.06	398.42
9.00	.....	.....	.....	.....	.....	58.04
1,338.97	11,543.97	831.02	465.73	578.26	.....	1,628.58
2,195.36	9,929.87	940.62	328.95	143.24	524.82	668.59
170.45	5,732.12	152.90	26.36	2.26	37.02	98.77
741.73	5,830.21	126.35	84.66	.....	.....	.....
786.68	9,454.51	.....	806.76	.....	.....	.....
1,213.77	25,718.42	.....	1,599.25	.....	.....	.....
3,025.00	22,917.00	715.00	922.00	717.00	653.00	1,850.00
.....	.....	.....	.....	1,200.00	.....	.....
34,012.71	370,322.18	16,540.31	9,367.33	8,724.88	7,543.04	32,485.81
2,065.19	104,569.74	2,676.12	2,069.63	1,338.45	1,338.59	5,328.54
.....	.....	.....	.....	.....	.....	.....
623	7,019	391	242	104	173	746
103	341	95	58	34	29	150
11	55	9	4	33	5	27
737	7,415	495	304	171	207	923

## STATEMENT

## Detailed Operating Reports of Electrical Departments of

## SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Orono	Oshawa	Ottawa	Otterville
Population.....	P.V.	26,843	158,581	P.V.
EARNINGS				
Domestic service.....	\$ 4,731.10	248,450.99	667,126.27	2,743.03
Commercial light service.....	2,036.99	75,811.99	310,607.42	1,961.66
Commercial power service.....	165.84	331,361.98	67,789.49	684.45
Municipal power.....		10,258.16	24,591.11	
Street lighting.....	710.90	11,833.83	81,850.61	812.39
Merchandise.....				
Miscellaneous.....	67.56	11,633.05	12,373.41	148.27
Total earnings.....	7,712.39	689,350.00	1,164,338.31	6,349.80
EXPENSES				
Power purchased.....	3,684.83	480,513.83	621,854.25	3,117.39
Substation operation.....		113.28	33,350.85	
Substation maintenance.....		92.06	2,593.27	
Distribution system, operation and maintenance.....	129.47	10,449.36	24,016.41	279.89
Line transformer maintenance.....	5.00	108.16	1,787.37	
Meter maintenance.....	89.57	6,377.04	13,549.76	
Consumers' premises expenses.....	31.70	21,023.63	4,199.88	
Street lighting, operation and maintenance.....	81.62	2,143.26	35,537.47	90.27
Promotion of business.....		678.29	4,001.96	
Billing and collecting.....	579.15	14,495.75	53,957.32	365.70
General office, salaries and expenses.....	398.15	11,534.02	29,472.24	323.80
Undistributed expenses.....	20.33	6,315.72	21,391.18	6.38
Truck operation and maintenance.....			4,185.21	
Interest.....	164.62	2,268.73	17,411.19	
Sinking fund and principal payments on debentures.....		18,000.00	11,898.94	
Depreciation.....	218.00	16,701.00	118,306.00	418.00
Other reserves.....			52,808.25	
Total operating costs and fixed charges.....	5,402.44	590,814.13	1,050,321.55	4,601.43
Net surplus.....	2,309.95	98,535.87	114,016.76	1,748.37
Net loss.....				
NUMBER OF CONSUMERS				
Domestic service.....	183	6,765	15,658	143
Commercial light service.....	39	705	1,468	45
Power service.....	2	119	208	5
Total.....	224	7,589	17,334	193

**"B"—Continued****Hydro Municipalities for Year Ended December 31, 1944**

Owen Sound 13,591	Paisley 615	Palmerston 1,342	Paris 4,608	Parkhill 882	Penetanguishene 3,843	Perth 4,154
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
71,768.02	4,151.74	11,483.77	26,659.36	6,056.50	14,948.16	28,613.25
45,959.32	2,334.73	4,801.00	9,205.58	3,369.83	9,066.62	15,631.03
80,236.81	921.80	7,354.22	25,235.25	1,382.34	19,715.78	16,183.36
9,967.40	1,068.40	1,501.70	979.75	553.17	2,144.66	1,062.93
531.24	.....	2,365.93	5,248.00	1,458.80	2,097.50	2,768.84
216.85	220.40	18.68	.....	.....	84.25	2,780.65
216.85	220.40	274.85	1,107.04	217.65	491.64	3,467.66
208,679.64	8,697.07	27,800.15	68,434.98	13,038.29	48,548.61	70,507.72
163,931.08	4,754.33	19,510.92	46,079.29	8,163.84	26,899.65	46,834.06
4,899.74	.....	.....	838.36	.....	76.12	394.52
4,357.58	464.06	636.72	3,001.37	530.69	3,147.83	1,607.45
936.79	.....	332.29	373.00	.....	127.37	183.43
2,096.21	10.90	254.23	903.43	42.52	522.00	765.28
19.37	.....	462.98	224.44	126.73	3.27	81.11
1,428.21	141.12	466.26	1,765.05	99.43	274.08	345.70
63.40	.....	.....	.....	.....	.....	11.25
5,310.16	.....	969.54	2,310.38	542.93	1,712.39	2,259.85
6,576.91	777.54	741.74	1,545.07	105.12	1,474.87	3,895.79
3,528.85	.....	96.41	628.20	2.93	138.89	628.75
1,097.60	.....	119.08	704.86	18.65	412.62	518.88
.....	.....	.....	.....	.....	.....	1,810.41
.....	.....	.....	.....	.....	.....	3,453.28
6,283.00	431.00	1,894.00	4,567.00	1,080.00	2,631.00	3,338.00
.....	1,000.00	.....	100.00	.....	5,500.00	.....
200,528.90	7,578.95	25,484.17	63,040.45	10,712.84	42,920.09	66,127.76
8,150.74	1,118.12	2,315.98	5,394.53	2,325.45	5,628.52	4,379.96
.....	.....	.....	.....	.....	.....	.....
3,663	202	400	1,215	315	773	1,110
544	50	95	192	81	103	192
103	3	13	25	7	21	30
4,310	255	508	1,432	403	897	1,332

## STATEMENT

## Detailed Operating Reports of Electrical Departments of

## SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Peterborough 27,776	Petrolia 2,605	Picton 3,383	Plattsburg P.V.	Point Edward 1,221
Population.....					
<b>EARNINGS</b>					
Domestic service.....	203,077.98	14,234.71	26,744.48	2,934.43	7,452.98
Commercial light service.....	90,726.73	7,754.31	15,519.65	2,156.56	2,910.17
Commercial power service.....	159,410.60	24,665.00	5,430.84	2,243.06	43,525.09
Municipal power.....	6,828.63		2,127.22		
Street lighting.....	21,000.45	2,655.36	3,698.45	381.93	1,685.14
Merchandise.....		44.10	3,446.99		56.91
Miscellaneous.....	14,820.91	1,453.85	1,403.72	217.10	672.10
Total earnings.....	495,865.30	50,807.33	58,371.35	7,933.08	56,302.39
<b>EXPENSES</b>					
Power purchased.....	293,450.48	28,999.53	37,014.70	4,374.36	51,870.26
Substation operation.....	7,459.50	139.70			
Substation maintenance.....	282.81				
Distribution system, operation and maintenance.....	12,710.25	2,989.33	1,333.97	104.66	276.56
Line transformer maintenance.....	1,242.76	172.93	141.10		2.07
Meter maintenance.....	6,597.98	934.91	263.75	136.22	152.79
Consumers' premises expenses.....	3,796.45	376.45	.75		
Street lighting, operation and maintenance.....	6,513.20	894.22	312.17	43.79	237.12
Promotion of business.....	253.49	63.64			
Billing and collecting.....	10,220.12	1,506.37	1,685.89	269.98	1,257.66
General office, salaries and expenses.....	7,200.57	2,285.01	2,941.20	49.05	1,131.24
Undistributed expenses.....	7,222.24	180.04	476.91	6.82	34.71
Truck operation and maintenance.....	1,565.60	254.88	198.42		
Interest.....	11,511.13	380.79		15.81	57.68
Sinking fund and principal payments on debentures.....	7,069.22	2,163.65		324.86	822.68
Depreciation.....	25,333.00	2,651.00	2,874.00	236.00	978.00
Other reserves.....	300.00		6,000.00		53.88
Total operating costs and fixed charges.....	402,728.80	43,992.45	53,242.86	5,561.55	56,874.65
Net surplus.....	93,136.50	6,814.88	5,128.49	2,371.53	
Net loss.....					572.26
<b>NUMBER OF CONSUMERS</b>					
Domestic service.....	6,702	825	1,336	118	349
Commercial light service.....	916	139	204	21	47
Power service.....	170	57	37	2	11
Total.....	7,788	1,021	1,577	141	407

**"B"—Continued****Hydro Municipalities for Year Ended December 31, 1944**

Port Colborne 7,050	Port Credit 1,956	Port Dalhousie 1,747	Port Dover 1,818	Port Elgin 1,329	Port Hope 4,910	Port McNicoll 964
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
34,577.64	20,366.35	21,473.60	11,774.57	12,595.87	34,154.57	4,536.11
19,583.15	6,970.46	4,832.90	5,599.57	6,113.06	14,273.59	715.26
23,810.77	4,926.64	7,376.10	6,523.78	3,224.89	37,360.88	.....
7,040.30	1,380.01	.....	.....	788.06	1,621.82	.....
8,305.00	2,553.38	1,585.44	2,321.25	2,132.05	3,988.64	880.00
.....	.....	.....	.....	.....	323.57	.....
3,163.57	528.51	599.09	445.77	249.81	997.35	76.50
96,480.43	36,725.35	35,867.13	26,664.94	25,103.74	92,720.42	6,207.87
.....	.....	.....	.....	.....	.....	.....
45,934.84	23,025.91	22,999.43	15,156.17	16,316.43	68,284.51	3,139.47
.....	.....	.....	.....	.....	51.77	.....
7,340.57	1,665.26	3,350.60	2,328.72	885.58	933.18	511.69
1,221.48	289.62	40.23	201.83	.....	236.25	.....
1,035.86	504.90	411.39	799.50	106.07	1,312.56	199.58
87.95	256.58	115.06	11.46	127.55	635.97	.....
2,906.03	616.59	396.63	189.46	186.05	1,304.65	183.97
302.07	.....	.....	.....	.....	.....	.....
2,938.38	1,467.83	1,532.51	645.64	802.44	2,677.75	669.56
2,594.30	628.65	1,511.61	1,262.08	302.31	4,167.67	317.90
1,475.37	127.93	252.12	238.33	60.03	1,293.38	71.13
640.06	.....	538.15	322.57	152.68	253.25	.....
976.34	104.22	.....	6.90	985.09	.....	.....
5,588.09	377.23	.....	.....	2,395.16	.....	.....
3,648.00	1,491.00	1,442.00	1,262.00	1,362.00	3,646.00	346.00
10,000.00	2,500.00	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....
86,689.34	33,055.72	32,589.73	22,424.66	23,681.39	84,796.94	5,439.30
9,791.09	3,669.63	3,277.40	4,240.28	1,422.35	7,923.48	768.57
.....	.....	.....	.....	.....	.....	.....
1,655	649	691	750	509	1,455	241
233	83	69	116	110	203	17
24	11	12	15	7	40	.....
1,912	743	772	881	626	1,698	258

## STATEMENT

## Detailed Operating Reports of Electrical Departments of

## SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Port Perry 1,216	Port Rowan 622	Port Stanley 919	Prescott 3,283	Preston 6,707
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
<b>Domestic service.....</b>					
Commercial light service.....	9,542.38	3,350.51	17,531.68	24,131.21	39,797.05
Commercial power service.....	3,575.94	2,428.52	4,446.11	11,016.29	20,543.02
Municipal power.....	2,604.92	117.17	3,625.42	13,218.60	63,529.49
Street lighting.....	386.91		878.28	1,425.65	1,074.97
Merchandise.....	1,565.31	774.04	2,390.84	3,928.86	5,412.88
Miscellaneous.....	255.00	227.50	648.90	193.51	1,127.27
Total earnings.....	17,930.46	6,897.74	29,521.23	53,914.12	131,484.68
EXPENSES					
<b>Power purchased.....</b>					
Substation operation.....	11,053.57	3,521.73	19,482.49	38,944.87	98,358.74
Substation maintenance.....				1,581.80	4,420.56
Distribution system, operation and maintenance.....	645.40	105.65	2,630.88	3,837.86	2,089.40
Line transformer maintenance.....		2.50	25.50	234.85	86.66
Meter maintenance.....	79.05	161.12	387.23	270.33	497.29
Consumers' premises expenses.....			185.50	580.02	765.18
Street lighting, operation and maintenance.....	166.45	97.55	366.64	651.41	955.27
Promotion of business.....					
Billing and collecting.....	850.60	344.55	936.53	1,473.22	1,948.80
General office, salaries and expenses.....	491.76	60.50	933.79	2,587.29	2,919.09
Undistributed expenses.....		6.69	355.66	625.66	1,058.72
Truck operation and maintenance.....			460.02		499.24
Interest.....	274.72	199.99		105.41	433.22
Sinking fund and principal payments on debentures.....	1,418.98	759.04			1,140.54
Depreciation.....	776.00	324.00	1,210.00	2,542.00	7,241.00
Other reserves.....			1,000.00		
Total operating costs and fixed charges.....	15,756.53	5,583.32	27,974.24	53,434.72	122,552.41
Net surplus.....	2,173.93	1,314.42	1,546.99	479.40	8,932.27
Net loss.....					
NUMBER OF CONSUMERS					
<b>Domestic service.....</b>					
Commercial light service.....	381	171	825	815	1,689
Power service.....	76	39	95	139	225
Total.....	10	2	10	23	54
	467	212	930	977	1,968

**"B"—Continued****Hydro Municipalities for Year Ended December 31, 1944**

Priceville P.V.	Princeton P.V.	Queenston P.V.	Richmond 437	Richmond Hill 1,423	Ridgetown 1,854	Ripley 361
\$   c.	\$   c.	\$   c.	\$   c.	\$   c.	\$   c.	\$   c.
649.48	2,960.46	3,353.23	2,671.23	11,567.43	9,506.01	3,516.55
159.84	875.05	1,701.08	1,268.29	4,105.14	7,508.40	2,025.45
152.04	2,595.72	.....	.....	2,354.91	6,532.84	1,608.24
.....	.....	.....	.....	487.56	973.23	.....
491.64	435.42	389.34	390.00	1,209.00	2,948.96	882.00
.....	.....	.....	.....	.....	149.87	.....
66.88	177.07	198.06	.....	225.41	1,084.56	28.07
1,519.88	7,043.72	5,641.71	4,329.52	19,949.45	28,703.87	8,060.31
.....	.....	.....	.....	.....	.....	.....
357.61	4,995.38	2,974.33	3,057.06	11,764.97	18,565.67	3,742.32
.....	.....	.....	.....	.....	.....	.....
55.77	143.20	370.10	140.20	617.20	1,185.49	74.42
.....	.....	26.33	.....	23.46	6.33	.....
.....	.....	15.05	22.81	237.62	267.85	54.39
.....	.....	133.35	.....	348.96	207.57	.....
52.57	75.39	19.74	82.86	169.44	790.40	101.35
.....	.....	176.15	327.42	217.77	1,084.47	1,564.89
97.68	38.47	219.56	46.37	335.63	1,181.76	574.84
.....	1.80	19.09	.....	4.47	296.64	.....
.....	.....	10.84	28.31	138.12	.....	1,017.87
.....	.....	220.09	89.83	423.47	678.95	327.89
186.00	194.00	307.00	312.00	846.00	1,307.00	724.73
.....	.....	.....	.....	.....	1,000.00	673.00
749.63	5,855.32	4,530.11	4,440.66	15,432.22	28,166.59	6,272.94
770.25	1,188.40	1,111.60	.....	4,517.23	537.28	1,787.37
.....	.....	.....	111.14	.....	.....	.....
38	98	81	85	414	599	129
9	21	17	22	72	136	49
2	3	.....	.....	15	19	1
49	122	98	107	501	754	179

**STATEMENT****Detailed Operating Reports of Electrical Departments of****SOUTHERN ONTARIO SYSTEM—Continued**

Municipality.....	Riverside	Rockwood	Rodney	Rosseau	Russell
Population.....	5,525	P.V.	722	201	P.V.
<b>EARNINGS</b>					
Domestic service.....	44,426.15	4,377.39	3,470.29	2,340.45	3,218.17
Commercial light service.....	5,602.93	1,104.54	2,227.82	880.43	1,453.91
Commercial power service.....	4,543.71	35.29	2,050.31	.....	.....
Municipal power.....	3,193.21	.....	.....	.....	.....
Street lighting.....	3,637.47	745.30	1,124.62	979.16	848.00
Merchandise.....	212.84	6.96	.....	.....	.....
Miscellaneous.....	1,259.35	108.85	153.50	25.00	210.00
Total earnings.....	62,875.66	6,378.33	9,026.54	4,225.04	5,730.08
<b>EXPENSES</b>					
Power purchased.....	35,250.57	3,903.76	5,491.62	1,400.85	3,266.12
Substation operation.....	38.01	.....	.....	.....	.....
Substation maintenance.....	.....	.....	.....	.....	.....
Distribution system, operation and maintenance.....	1,986.67	149.43	373.98	151.01	350.13
Line transformer maintenance.....	147.85	.....	35.81	.....	.....
Meter maintenance.....	719.43	49.75	11.64	.....	65.09
Consumers' premises expenses.....	1,624.14	.....	.....	.....	8.83
Street lighting, operation and maintenance.....	852.35	95.28	114.44	87.37	82.90
Promotion of business.....	.....	.....	.....	.....	.....
Billing and collecting.....	2,327.49	.....	383.23	365.12	348.60
General office, salaries and expenses.....	3,795.34	663.99	525.54	143.35	92.50
Undistributed expenses.....	710.75	8.94	32.71	.....	.....
Truck operation and maintenance.....	226.50	.....	.....	.....	.....
Interest.....	.....	64.82	.....	500.52	84.96
Sinking fund and principal payments on debentures.....	.....	135.78	.....	632.88	751.83
Depreciation.....	5,227.00	401.00	672.00	367.00	242.00
Other reserves.....	.....	.....	.....	.....	.....
Total operating costs and fixed charges.....	52,906.10	5,472.75	7,640.97	3,648.10	5,292.96
Net surplus.....	9,969.56	905.58	1,385.57	576.94	437.12
Net loss.....	.....	.....	.....	.....	.....
<b>NUMBER OF CONSUMERS</b>					
Domestic service.....	1,559	174	239	58	119
Commercial light service.....	60	31	62	12	30
Power service.....	12	1	6	.....	.....
Total.....	1,631	206	307	70	149

**"B"—Continued****Hydro Municipalities for Year Ended December 31, 1944**

St. Catharines 32,559	St. Clair Beach *153	St. George P.V.	St. Jacobs P.V.	St. Marys 4,005	St. Thomas 17,773
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
200,564.45	3,219.21	3,681.51	4,450.13	29,586.65	142,387.96
95,108.16	1,815.29	1,413.44	1,927.20	10,832.66	51,641.64
482,642.17	228.91	3,140.04	5,274.54	24,125.53	66,561.49
				2,512.66	5,505.19
26,753.96		438.74	460.65	4,551.50	14,328.19
27.66				51.07	
5,918.65	259.45	334.01	302.81	645.52	4,774.97
811,015.05	5,522.86	9,007.74	12,415.33	72,305.59	285,199.44
624,896.44	3,286.73	5,696.75	9,163.39	48,147.32	191,855.09
10,703.60				2,227.91	9,596.40
				352.73	692.15
22,558.13	191.06	137.61	74.40	3,385.30	7,586.54
2,098.90	6.70		170.70	60.25	710.36
7,223.03	50.11	459.49	30.90	794.95	1,347.43
1,642.49	61.41			927.24	9,398.01
5,340.38		120.95	34.51	891.93	1,804.63
535.07				43.20	2,039.55
18,924.90	345.30	413.42	476.09	1,703.03	8,331.46
10,426.78	297.70	175.29	261.19	3,065.72	10,300.93
8,470.65	1.45	8.79	20.34	1,364.30	6,528.52
2,189.37				390.88	
1,225.00		11.18		648.90	
3,500.00		401.65		1,357.79	
17,733.00	321.00	455.00	503.00	4,220.00	20,115.00
4,000.00		1,000.00		1,400.00	5,000.00
741,467.74	4,561.46	8,880.13	10,734.52	70,981.45	275,306.07
69,547.31	961.40	127.61	1,680.81	1,324.14	9,893.37
8,742	102	154	141	1,076	4,718
1,055	7	31	31	172	613
213	1	2	9	38	82
10,010	110	187	181	1,286	5,413

## STATEMENT

## Detailed Operating Reports of Electrical Departments of

## SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Sarnia	Scarbor-ough Twp. V.A.	Seaforth	Shelburne	Simcoe
Population.....	17,840		1,711	1,044	6,224
<b>EARNINGS</b>					
Domestic service.....	118,017.87	138,392.01	12,167.45	5,940.46	29,081.52
Commercial light service.....	54,812.14	24,096.60	7,861.55	3,677.94	30,035.67
Commercial power service.....	203,965.13	24,961.11	13,603.00	2,966.92	30,328.28
Municipal power.....	4,557.34	16,025.12	766.91	310.30	2,895.94
Street lighting.....	18,157.31	14,250.98	2,134.50	793.35	4,936.83
Merchandise.....	1,107.53		90.37	6.81	
Miscellaneous.....	13,140.56	2,430.54	213.03	418.25	3,338.10
Total earnings.....	413,757.88	220,156.36	36,836.81	14,114.03	100,616.34
<b>EXPENSES</b>					
Power purchased.....	286,941.96	121,154.46	27,282.30	8,676.25	70,433.61
Substation operation.....	11,855.51				357.68
Substation maintenance.....	416.43	348.65	116.82		
Distribution system, operation and maintenance.....	5,797.73	7,760.94	755.34	211.97	4,143.96
Line transformer maintenance.....	1,693.31	1,579.06	435.30	103.04	824.18
Meter maintenance.....	7,247.16	4,040.34	285.77	295.30	1,314.59
Consumers' premises expenses.....	2,869.62	1,010.07	241.33		392.22
Street lighting, operation and maintenance.....	6,704.89	2,471.25	239.53	148.46	623.43
Promotion of business.....	478.96				24.20
Billing and collecting.....	10,741.81	7,025.50	876.63	699.55	2,990.52
General office, salaries and expenses.....	16,139.11	6,093.06	1,422.12	114.95	2,945.23
Undistributed expenses.....	7,372.54	1,899.40	121.76	8.24	264.41
Truck operation and maintenance.....	1,922.10	2,806.34	210.98		986.50
Interest.....	276.54	2,036.44	337.11		785.33
Sinking fund and principal payments on debentures.....	3,172.68	5,987.82	536.39		5,176.57
Depreciation.....	15,586.00	11,140.00	1,494.00	874.00	5,747.00
Other reserves.....	17,456.62	22,000.00		1,500.00	
Total operating costs and fixed charges.....	396,672.97	197,353.33	34,355.38	12,631.76	97,009.52
Net surplus.....	17,084.91	22,803.03	2,481.43	1,482.27	3,606.82
Net loss.....					
<b>NUMBER OF CONSUMERS</b>					
Domestic service.....	5,403	5,950	524	314	1,678
Commercial light service.....	614	385	109	69	390
Power service.....	87	39	23	13	43
Total.....	6,104	6,374	656	396	2,111

**"B"—Continued****Hydro Municipalities for Year Ended December 31, 1944**

Smiths Falls 7,468	Smithville P.V.	Southampton 1,597	Springfield 409	Stamford Twp.	Stayner 1,172	Stirling 939
\$   c.	\$   c.	\$   c.	\$   c.	\$   c.	\$   c.	\$   c.
52,773.05	4,159.56	11,874.86	2,292.67	79,218.97	6,070.89	6,501.59
16,712.70	2,874.01	5,821.07	755.59	12,914.30	3,642.11	3,474.20
29,158.77	2,647.87	8,096.12	883.59	15,275.05	2,931.92	1,284.07
899.27		1,008.15		2,600.65	91.36	270.20
7,043.39	1,153.10	2,170.44	521.50	7,929.99	1,080.00	1,548.12
4,082.20	351.47	66.99	151.24	783.75		179.78
110,669.38	11,186.01	29,037.63	4,604.59	120,666.12	14,020.73	13,723.72
74,092.88	4,662.83	18,040.25	2,489.51	55,442.84	8,835.53	7,043.61
584.79				755.22		
909.33						256.58
4,086.67	929.14	1,166.30	23.90	8,319.92	806.01	508.83
111.33	3.60	24.49		961.74		
973.05	51.58	92.78		2,658.32	132.95	60.00
719.02				3,277.64	4.90	3.44
619.13	162.76	396.72	50.49	1,964.82	56.00	289.22
159.60				166.97		
4,478.36	709.50	1,034.56	410.39	4,151.64	883.58	589.67
3,187.02	166.88	567.13	172.15	5,217.44	381.90	1,328.22
1,753.75	35.49	158.14	1.06	2,225.33	36.12	93.70
605.73	200.00	219.23		2,975.91		432.44
	251.60	411.95	73.67	2,627.46		
	796.37	1,881.89	303.95	8,606.50		
5,030.00	691.00	1,442.00	460.00	10,286.00	824.00	1,085.00
				10,000.00		
97,310.66	8,660.75	25,435.44	3,985.12	119,637.75	11,960.99	11,690.71
13,358.72	2,525.26	3,602.19	619.47	1,028.37	2,059.74	2,033.01
2,012	185	567	133	2,497	341	293
213	53	89	22	154	87	69
37	5	12	3	19	15	9
2,262	243	668	158	2,670	443	371

**STATEMENT****Detailed Operating Reports of Electrical Departments of****SOUTHERN ONTARIO SYSTEM—Continued**

Municipality.....	Stouffville	Stratford	Strathroy	Streetsville 704	Sunderland P.V.
Population.....	1,223	16,993	3,060	704	
<b>EARNINGS</b>					
Domestic service.....	\$ 8,280.58	146,317.69	23,580.58	5,771.38	3,106.89
Commercial light service.....	4,178.85	52,482.05	11,589.91	2,102.78	1,310.97
Commercial power service.....	1,328.44	60,305.72	15,975.62	3,915.09	390.37
Municipal power.....		10,431.32	1,770.85		
Street lighting.....	1,301.70	16,218.86	4,136.80	1,251.50	645.60
Merchandise.....		504.38	104.33		
Miscellaneous.....	683.31	11,438.76	1,035.00	787.01	68.75
Total earnings.....	15,772.88	297,698.78	58,193.09	13,827.76	5,522.58
<b>EXPENSES</b>					
Power purchased.....	8,123.32	193,877.11	38,876.99	5,999.14	3,320.85
Substation operation.....		6,827.16	787.40	1,241.45	
Substation maintenance.....		3,957.85			
Distribution system, operation and maintenance.....	676.55	8,254.39	1,693.87	634.92	298.22
Line transformer maintenance.....		746.16	64.34	41.63	
Meter maintenance.....	8.00	3,308.83	766.61	69.65	8.01
Consumers' premises expenses.....		6,156.28	1,734.16		
Street lighting, operation and maintenance.....	280.89	2,407.61	1,023.69	98.66	58.84
Promotion of business.....		1,470.06	10.20		
Billing and collecting.....	752.00	8,345.48	1,237.89	941.31	493.87
General office, salaries and expenses.....	509.63	9,038.14	2,650.71	633.21	138.68
Undistributed expenses.....	48.70	3,762.40	854.63	47.58	
Truck operation and maintenance.....		1,578.93	489.07		
Interest.....		4,300.00	773.86	468.27	
Sinking fund and principal payments on debentures.....		1,440.00	2,551.12	656.82	
Depreciation.....	746.00	19,045.00	2,886.00	1,147.00	286.00
Other reserves.....	2,300.00	12,000.00			
Total operating costs and fixed charges.....	13,445.09	286,515.40	56,400.54	11,979.64	4,604.47
Net surplus.....	2,327.79	11,183.38	1,792.55	1,848.12	918.11
Net loss.....					
<b>NUMBER OF CONSUMERS</b>					
Domestic service.....	408	4,561	876	208	140
Commercial light service.....	84	589	173	49	36
Power service.....	6	114	31	6	2
Total.....	498	5,264	1,080	263	178

**"B"—Continued****Hydro Municipalities for Year Ended December 31, 1944**

Sutton 918	Swansee 7,033	Tara 478	Tavistock 1,042	Tecumseh 2,628	Teeswater 826	Thamesford P.V.
\$   c.	\$   c.	\$   c.	\$   c.	\$   c.	\$   c.	\$   c.
8,445.65	72,710.46	3,103.17	9,005.61	17,237.29	4,862.78	4,044.59
3,224.70	9,075.32	1,522.81	4,422.67	5,205.63	2,908.92	1,283.45
1,179.36	24,926.18	1,769.16	9,431.89	1,986.28	1,909.36	1,969.54
.....	2,658.39	.....	439.79	85.49	180.00	.....
1,756.50	5,202.53	821.12	1,208.30	1,325.02	867.75	472.84
.....	.....	.....	7.80	181.41	.....	.....
317.50	2,496.76	196.59	352.50	712.08	289.11	267.13
14,923.71	117,069.64	7,412.85	24,868.56	26,733.20	11,017.92	8,037.55
.....	.....	.....	.....	.....	.....	.....
10,097.65	75,276.09	4,024.80	19,103.90	12,957.38	6,926.10	7,023.36
.....	.....	.....	.....	.....	.....	.....
869.99	2,371.65	385.37	348.21	2,511.04	390.40	311.54
.....	127.74	.....	.....	298.26	.....	.....
1.60	1,023.66	14.50	35.85	515.64	89.25	7.13
.....	1,732.88	.....	141.38	520.13	.....	107.56
121.50	574.33	110.02	205.74	628.25	161.25	123.08
.....	.....	.....	.....	15.00	.....	.....
632.08	4,756.08	.....	1,056.50	1,176.46	.....	311.62
222.77	2,442.61	544.84	741.58	1,569.96	632.95	154.58
70.37	384.90	7.91	25.83	98.55	.....	1.79
196.46	671.99	.....	.....	257.49	.....	.....
.....	2,437.28	.....	53.11	.....	.....	5.81
.....	3,718.29	.....	337.20	.....	.....	47.36
805.00	3,679.00	524.00	825.00	1,272.00	660.00	365.00
200.00	.....	.....	.....	.....	.....	.....
13,217.42	99,196.50	5,611.44	22,874.30	21,820.16	8,859.95	8,458.83
1,706.29	17,873.14	1,801.41	1,994.26	4,913.04	2,157.97	.....
.....	.....	.....	.....	.....	.....	421.28
468	2,096	164	300	711	233	147
80	95	36	96	53	56	39
4	16	5	9	3	4	6
552	2,207	205	405	767	293	192

## STATEMENT

## Detailed Operating Reports of Electrical Departments of

## SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Thamesville 789	Thedford	Thorndale	Thornton	Thorold
Population.....		557	P.V.	P.V.	5,374
<b>EARNINGS</b>					
Domestic service.....	3,752.44	3,409.88	1,845.41	1,403.67	23,384.61
Commercial light service.....	2,851.92	2,639.73	725.55	358.18	8,807.93
Commercial power service.....	1,768.69	2,249.94	1,099.83	336.77	46,455.39
Municipal power.....	188.10				2,410.16
Street lighting.....	1,148.33	1,115.00	384.00	500.00	3,555.40
Merchandise.....	526.62	342.29	101.75	63.75	2,236.37
Miscellaneous.....					
Total earnings.....	10,236.10	9,756.84	4,156.54	2,662.37	86,849.86
<b>EXPENSES</b>					
Power purchased.....	5,924.11	5,470.14	3,551.86	1,301.73	68,372.51
Substation operation.....					3,443.28
Substation maintenance.....					
Distribution system, operation and maintenance.....	417.75	338.91	126.09	139.98	2,028.97
Line transformer maintenance.....		14.53			4.77
Meter maintenance.....	343.83	43.80			460.53
Consumers' premises expenses.....			1.58		158.45
Street lighting, operation and maintenance.....	97.20	141.40	46.87	65.66	995.58
Promotion of business.....					
Billing and collecting.....	382.19	329.53	166.25		2,275.06
General office, salaries and expenses.....	339.87	144.95	94.58	162.17	1,107.01
Undistributed expenses.....	2.67	7.09			256.10
Truck operation and maintenance.....					654.27
Interest.....			13.98		
Sinking fund and principal payments on debentures.....			148.90		
Depreciation.....	652.00	611.00	241.00	292.00	2,366.00
Other reserves.....					
Total operating costs and fixed charges.....	8,159.62	7,101.35	4,391.11	1,961.54	82,122.53
Net surplus.....	2,076.48	2,655.49		700.83	4,727.33
Net loss.....			234.57		
<b>NUMBER OF CONSUMERS</b>					
Domestic service.....	243	166	83	67	1,274
Commercial light service.....	68	53	21	11	158
Power service.....	6	2	2	2	19
Total.....	317	221	106	80	1,451

## “B”—Continued

## Hydro Municipalities for Year Ended December 31, 1944

Tilbury 1,982	Tillson- burg 3,999	Toronto 674,285	Toronto Twp. V.A.	Tottenham 482	Trafalgar Twp. V.A. No. 1	Trafalgar Twp. V.A. Inc. 2
c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
7,730.13	21,327.20	3,951,282.46	95,025.70	3,641.64	17,517.96	5,936.36
6,457.54	17,550.33	2,503,816.87	22,273.63	1,282.65	841.08	828.02
35,037.73	14,953.02	4,980,766.74	8,607.14	1,552.85	1,473.17	189.79
225.00	1,707.12	1,398,916.31	.....	232.47	.....	.....
1,606.67	4,749.59	370,576.10	5,407.48	798.96	.....	.....
.....	307.81	.....	.....	.....	.....	.....
1,048.09	542.64	362,380.71	3,196.60	73.56	619.63	209.35
52,105.16	61,137.71	13,567,739.19	134,510.55	7,582.13	20,451.84	7,163.52
.....	.....	.....	.....	.....	.....	.....
41,040.12	38,777.16	*7,308,446.49	85,627.11	3,908.12	11,657.26	4,681.94
.....	1,360.93	227,412.15	.....	.....	.....	.....
.....	.....	314,351.03	.....	.....	.....	.....
922.64	2,830.14	403,320.13	5,956.24	357.45	1,854.74	474.08
43.63	56.58	58,884.14	687.52	.....	113.83	4.60
458.09	816.70	120,731.94	1,088.18	268.20	195.85	11.30
11.85	.....	258,826.86	110.29	.....	.....	.....
279.22	440.58	124,160.46	575.51	161.72	.....	.....
.....	.....	110,663.82	.....	.....	.....	.....
785.23	2,593.46	451,603.37	8,063.26	465.00	1,326.61	.....
1,069.12	4,887.54	377,789.65	9,400.22	251.44	403.42	737.72
236.70	220.88	219,446.23	522.89	.....	419.10	10.69
336.40	323.83	.....	1,767.98	.....	477.43	.....
43.72	358.67	483,365.05	667.68	115.44	37.20	346.76
685.37	377.75	826,502.24	1,438.11	675.64	.....	910.32
1,173.00	4,313.00	1,146,543.81	8,723.00	404.00	1,122.00	538.00
2,500.00	2,000.00	.....	.....	.....	.....	.....
49,585.09	59,356.62	12,432,047.37	124,627.99	6,607.01	17,607.44	7,715.41
2,520.07	1,781.09	1,135,691.82	9,882.56	975.12	2,844.40	.....
.....	.....	.....	.....	.....	.....	551.89
502	1,243	154,302	3,065	161	403	170
120	253	23,438	187	39	6	20
15	36	5,177	43	8	9	2
637	1,532	182,917	3,295	208	418	192

\*Includes 1944 Power Adjustment.

## STATEMENT

## Detailed Operating Reports of Electrical Departments of

## SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Trenton	Tweed	Uxbridge	Victoria Harbour	Walkerton
Population.....	9,387	1,250	1,425	937	2,619
<b>EARNINGS</b>	<b>\$ c.</b>	<b>\$ c.</b>	<b>\$ c.</b>	<b>\$ c.</b>	<b>\$ c.</b>
Domestic service.....	48,078.98	6,851.18	10,091.82	3,878.16	20,003.48
Commercial light service.....	22,779.98	4,351.24	3,982.38	936.29	11,279.54
Commercial power service.....	86,760.87	4,259.63	1,484.56	.....	9,907.18
Municipal power.....	4,823.22	373.28	490.09	102.00	526.18
Street lighting.....	8,312.65	1,740.66	1,634.16	535.00	2,806.82
Merchandise.....	35.72	148.22	35.51	.....	420.88
Miscellaneous.....	2,558.68	366.36	127.50	86.50	325.90
Total earnings.....	173,350.10	18,090.57	17,846.02	5,537.95	45,269.98
<b>EXPENSES</b>					
Power purchased.....	113,457.20	9,579.68	12,493.15	2,582.10	26,865.10
Substation operation.....	.....	.....	.....	.....	.....
Substation maintenance.....	102.62	.....	.....	.....	.....
Distribution system, operation and maintenance.....	1,943.56	422.00	524.98	206.68	1,520.34
Line transformer maintenance.....	565.68	.....	.....	.....	112.32
Meter maintenance.....	3,035.89	260.97	35.18	99.65	308.86
Consumers' premises expenses.....	1,224.79	.....	36.82	.....	72.02
Street lighting, operation and maintenance.....	870.01	204.32	156.95	148.82	224.28
Promotion of business.....	.....	.....	.....	.....	.....
Billing and collecting.....	3,968.49	832.30	747.64	716.53	1,203.73
General office, salaries and expenses.....	6,378.72	384.17	573.41	364.69	1,504.27
Undistributed expenses.....	2,310.69	11.19	12.06	.....	242.32
Truck operation and maintenance.....	735.44	.....	.....	.....	183.11
Interest.....	270.81	53.92	.....	.....	1,641.93
Sinking fund and principal payments on debentures.....	8,656.12	1,797.27	.....	.....	3,421.61
Depreciation.....	7,380.00	763.00	619.00	402.00	2,086.00
Other reserves.....	11,000.00	.....	1,300.00	.....	.....
Total operating costs and fixed charges.....	161,900.02	14,308.82	16,499.19	4,520.47	39,385.89
Net surplus.....	11,450.08	3,781.75	1,346.83	1,017.48	5,884.09
Net loss.....	.....	.....	.....	.....	.....
<b>NUMBER OF CONSUMERS</b>					
Domestic service.....	1,833	321	423	271	687
Commercial light service.....	270	79	97	28	132
Power service.....	55	14	11	1	21
Total.....	2,158	414	531	300	840

**"B"—Continued****Hydro Municipalities for Year Ended December 31, 1944**

Wallaceburg 4,970	Wardsville 227	Warkworth P.V.	Waterdown 808	Waterford 1,300	Waterloo 9,349	Watford 1,038
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
25,021.55	1,658.93	2,319.06	6,449.72	7,573.66	72,632.95	8,399.74
15,352.28	799.14	1,315.57	1,627.85	3,634.84	25,083.15	3,985.69
107,401.96	48.06	85.32	1,282.59	4,941.02	70,616.32	5,531.94
3,114.24			111.52	313.03	3,192.05	331.99
4,699.94	621.00	577.68	1,092.50	1,461.90	7,406.28	1,494.04
2,256.26						
2,568.52	102.41	182.25	290.78	398.36	3,144.71	501.17
160,414.75	3,229.54	4,479.88	10,854.96	18,322.81	182,075.46	20,244.57
119,342.71	1,409.91	2,537.07	6,371.14	12,133.21	138,766.45	12,130.91
465.65					1,706.32	
					1,982.94	
4,434.24	11.43	180.71	1,420.19	1,127.35	4,807.18	1,218.38
175.12			54.03	95.37	1,113.42	8.94
1,363.44	77.51	36.81	132.81	247.15	1,584.94	131.08
				17.01	816.18	247.86
948.36	47.59	22.00	227.67	264.77	1,620.59	199.09
145.00				5.63	49.76	
2,432.07	104.90	185.20	694.23	599.06	4,459.49	640.37
4,880.19	72.54	37.36	190.63	311.23	2,883.89	524.43
951.46			41.28	64.63	379.77	42.33
1,442.78				302.00	516.05	265.15
462.68		378.16				
5,018.42		420.98				
4,169.00	221.00	202.00	1,029.00	838.00	8,500.00	771.00
7,000.00				1,000.00		
153,231.12	1,944.88	4,000.29	10,160.98	17,005.41	169,186.98	16,179.54
7,183.63	1,284.66	479.59	693.98	1,317.40	12,888.48	4,065.03
1,387	65	135	280	397	2,306	312
231	17	39	33	78	253	78
46	1	1	7	14	74	8
1,664	83	175	320	489	2,633	398

## STATEMENT

## Detailed Operating Reports of Electrical Departments of

## SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Waubaushene P.V.	Welland 14,899	Wellesley P.V.	Wellington 1,076
EARNINGS	\$   c.	\$   c.	\$   c.	\$   c.
Domestic service.....	3,501.31	60,517.43	2,661.27	6,945.41
Commercial light service.....	746.18	36,810.61	1,434.77	3,290.44
Commercial power service.....	109.30	206,860.02	1,088.52	2,196.45
Municipal power.....	151.44	2,198.20		
Street lighting.....	659.33	11,877.80	600.70	1,144.52
Merchandise.....				
Miscellaneous.....		9,146.25	209.98	347.50
Total earnings.....	5,167.56	327,410.31	5,995.24	13,924.32
EXPENSES				
Power purchased.....	3,075.51	233,860.49	3,322.86	7,144.64
Substation operation.....		8,092.39		
Substation maintenance.....		1,732.88		
Distribution system, operation and maintenance.....	109.62	4,351.86	118.90	724.67
Line transformer maintenance.....		2,245.68	20.50	
Meter maintenance.....	112.05	4,616.13	2.00	
Consumers' premises expenses.....		2,647.23		3.55
Street lighting, operation and maintenance.....	91.82	3,899.04	54.79	132.85
Promotion of business.....				
Billing and collecting.....	251.61	6,975.62	273.70	504.66
General office, salaries and expenses.....	324.65	7,817.74	239.83	268.48
Undistributed expenses.....		1,374.81	14.23	283.14
Truck operation and maintenance.....		1,208.27		
Interest.....	1.71	1,577.17		135.49
Sinking fund and principal payments on debentures.....		6,394.52		558.93
Depreciation.....	489.00	11,850.00	295.00	675.00
Other reserves.....				
Total operating costs and fixed charges.....	4,455.97	298,643.83	4,341.81	10,431.41
Net surplus.....	711.59	28,766.48	1,653.43	3,492.91
Net loss.....				
NUMBER OF CONSUMERS				
Domestic service.....	235	3,264	137	343
Commercial light service.....	22	463	44	69
Power service.....	2	88	4	9
Total.....	259	3,815	185	421

**"B"—Continued****Hydro Municipalities for Year Ended December 31, 1944**

West Lorne 785	Weston 6,165	Westport 636	Wheatley 718	Whitby 4,531	Wiarton 1,558	Williamsburg P.V.
\$   c.	\$   c.	\$   c.	\$   c.	\$   c.	\$   c.	\$   c.
3,811.12	62,467.36	4,046.96	3,867.29	32,663.16	7,942.52	1,643.64
3,421.53	12,390.64	2,655.03	3,465.08	12,771.55	7,439.23	1,747.18
4,661.71	73,359.06	.....	2,501.93	18,509.52	2,289.94	143.18
.....	1,021.42	.....	561.79	1,926.94	1,606.49	.....
917.70	7,433.08	1,017.50	1,521.98	4,689.75	2,014.32	247.32
.....	.....	6.73	.....	.....	.....	.....
261.87	72.45	235.48	452.37	1,223.87	658.36	716.00
13,073.93	156,744.01	7,961.70	12,370.44	71,784.79	21,950.86	4,497.32
.....	.....	.....	.....	.....	.....	.....
7,855.44	112,839.18	4,597.17	7,809.99	36,562.08	12,268.10	2,513.10
.....	686.64	.....	.....	616.02	.....	.....
280.32	7,101.42	348.59	610.35	3,909.72	1,266.04	137.29
.....	633.15	.....	11.90	203.57	25.50	.....
7.42	442.56	53.65	100.00	967.90	296.86	66.54
44.65	1,474.16	.....	81.63	294.44	.....	23.45
89.85	1,623.01	107.09	270.74	1,065.03	458.48	73.68
.....	.....	40.15	.....	.....	.....	.....
835.44	1,867.78	718.22	522.72	2,925.89	848.73	488.21
286.40	3,114.13	340.92	274.66	2,285.67	665.64	120.80
3.33	652.64	29.44	32.81	677.58	277.85	.....
.....	792.71	.....	.....	978.41	180.65	.....
.....	109.05	437.44	.....	464.69	1,066.56	.....
.....	1,982.94	817.88	.....	2,556.29	1,934.51	.....
595.00	7,605.00	326.00	565.00	4,401.00	1,151.00	200.00
.....	.....	.....	51.98	.....	.....	.....
9,997.85	140,924.37	7,776.40	10,371.93	57,908.29	20,439.92	3,623.07
3,076.08	15,819.64	185.30	1,998.51	13,876.50	1,510.94	874.25
.....	.....	.....	.....	.....	.....	.....
227	1,700	149	237	1,054	437	86
54	179	49	73	161	106	32
8	33	.....	6	27	17	1
289	1,912	198	316	1,242	560	119

## STATEMENT

## Detailed Operating Reports of Electrical Departments of

## SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Winchester	Winder-mere	Windsor	Wingham	Wood-bridge
Population.....	1,029	118	109,948	2,058	1,019
<b>EARNINGS</b>					
Domestic service.....	7,387.30	2,781.64	761,143.99	13,566.35	8,879.63
Commercial light service.....	4,162.99	1,129.41	400,489.52	8,586.66	1,928.44
Commercial power service.....	2,176.81	185.47	836,724.44	13,495.49	10,111.35
Municipal power.....			21,859.19	1,460.84	738.47
Street lighting.....	869.21	325.00	103,678.23	3,368.26	945.84
Merchandise.....	8.52			589.99	
Miscellaneous.....	456.34	104.00	42,162.04		327.40
Total earnings.....	15,061.17	4,525.52	2,166,057.41	41,067.59	22,931.13
<b>EXPENSES</b>					
Power purchased.....	10,755.85	2,256.30	1,353,164.83	24,447.36	16,724.62
Substation operation.....			44,562.31	2,277.87	
Substation maintenance.....			21,848.21		
Distribution system, operation and maintenance.....	525.38	80.72	62,873.46	3,421.23	201.49
Line transformer maintenance.....			15,815.51	47.45	13.32
Meter maintenance.....	14.44	25.55	37,209.72	796.84	65.75
Consumers' premises expenses.....			50,378.99	4.20	239.51
Street lighting, operation and maintenance.....	96.45	45.45	58,175.78	286.40	91.95
Promotion of business.....			9,968.64		
Billing and collecting.....	779.27		62,744.34	882.56	
General office, salaries and expenses.....	291.32	259.25	52,290.70	1,351.44	835.24
Undistributed expenses.....			15,564.97	451.38	16.14
Truck operation and maintenance.....			14,186.73	330.10	
Interest.....	42.49	364.43	22,378.20	1,355.84	75.27
Sinking fund and principal payments on debentures.....	729.86	681.56	72,876.08	1,917.70	525.45
Depreciation.....	565.00	461.00	157,693.00	2,515.00	701.00
Other reserves.....					1,700.00
Total operating costs and fixed charges.....	13,800.06	4,174.26	2,051,731.47	40,085.37	21,189.74
Net surplus.....	1,261.11	351.26	114,325.94	982.22	1,741.39
Net loss.....					
<b>NUMBER OF CONSUMERS</b>					
Domestic service.....	309	64	26,909	560	314
Commercial light service.....	86	13	3,267	145	48
Power service.....	3	1	506	25	7
Total.....	398	78	30,682	730	369

**"B"—Continued****Hydro Municipalities for Year Ended December 31, 1944**

Woodstock 12,745	Woodville 415	Wyoming 494	York Twp.	Zurich P.V.	SOUTHERN ONTARIO SYSTEM SUMMARY
\$   c.	\$   c.	\$   c.	\$   c.	\$   c.	\$   c.
89,747.49	2,263.06	2,840.19	524,955.55	3,659.11	14,563,400.47
49,617.31	836.46	1,398.60	73,823.15	3,372.12	6,815,171.92
103,640.99	675.75	191.02	208,077.43	.....	15,725,248.36
5,304.43	.....	.....	7,971.50	.....	2,020,632.15
8,644.45	579.18	688.50	42,321.78	611.04	1,637,846.07
.....	.....	57.19	3,660.79	.....	33,359.31
3,657.45	218.76	.....	.....	286.25	857,759.03
260,612.12	4,573.21	5,175.50	860,810.20	7,928.52	41,653,417.31
202,491.73	3,059.75	2,566.77	467,654.01	4,878.10	25,735,659.02
4,509.60	.....	.....	3,616.93	.....	564,326.77
.....	.....	.....	2,097.01	.....	416,474.35
4,113.45	466.79	259.97	16,330.09	379.70	1,095,328.00
175.15	.....	1.60	5,405.42	.....	138,903.52
3,337.40	178.13	10.92	14,632.10	19.53	417,534.85
2,676.22	.....	.....	8,394.19	.....	503,968.72
2,405.32	59.80	81.29	8,096.89	91.10	423,063.36
1,232.14	.....	.....	.....	.....	153,838.65
4,690.65	394.33	245.25	39,981.66	262.20	1,193,264.20
4,208.69	107.08	111.21	28,015.07	154.98	1,084,131.26
2,197.62	.....	5.55	6,481.72	6.85	491,672.30
1,248.73	.....	.....	.....	.....	98,461.50
.....	35.39	.....	4,937.96	75.18	686,974.86
.....	259.51	.....	16,476.25	314.81	1,538,248.57
11,580.00	195.00	352.00	39,720.00	374.00	2,572,031.61
10,171.18	.....	.....	.....	.....	810,175.21
255,037.88	4,755.78	3,634.56	661,839.30	6,556.45	37,924,056.75
5,574.24	.....	1,540.94	198,970.90	1,372.07	3,729,360.56
.....	182.57	.....	.....	.....	.....
3,448	116	166	21,946	149	547,826
465	20	43	937	46	73,483
97	2	2	189	.....	13,354
4,010	138	211	23,072	195	634,663

## STATEMENT

## Detailed Operating Reports of Electrical Departments of

## THUNDER BAY SYSTEM

Municipality.....	Fort William	Nipigon Twp.	Port Arthur	THUNDER BAY SYSTEM SUMMARY
Population.....	29,061		24,424	
<b>EARNINGS</b>				
Domestic service.....	265,368.79	5,307.18	162,057.23	432,733.20
Commercial light service.....	102,001.61	4,085.88	90,804.22	196,891.71
Commercial power service.....	75,536.85	642.00	324,927.16	401,106.01
Municipal power.....	36,264.36	434.38	35,388.38	72,087.12
Street lighting.....	20,562.36	775.00	27,849.48	49,186.84
Merchandise.....	3,677.11	302.73	25,832.29	29,812.13
Miscellaneous.....				
Total earnings.....	503,411.08	11,547.17	666,858.76	1,181,817.01
<b>EXPENSES</b>				
Power purchased.....	293,918.59	5,030.35	435,601.36	734,550.30
Substation operation.....	9,990.22		29,018.90	39,009.12
Substation maintenance.....	129.55		1,283.54	1,413.09
Distribution system, operation and maintenance.....	9,400.98	586.42	16,854.73	26,842.13
Line transformer maintenance.....	1,832.85	43.82	1,558.18	3,434.85
Meter maintenance.....	8,340.03	109.76	9,588.77	18,038.56
Consumers' premises expenses.....	8,318.63			8,318.63
Street lighting, operation and main- tenance.....	7,544.22	172.65	5,490.20	13,207.07
Promotion of business.....	289.65		2,303.59	2,593.24
Billing and collecting.....	17,201.67		15,442.61	32,644.28
General office, salaries and expenses.....	15,657.54	809.72	12,691.42	29,158.68
Undistributed expenses.....	7,207.71	32.49	11,968.80	19,209.00
Truck operation and maintenance.....			1,445.05	1,445.05
Interest.....	13,875.00	49.37		13,924.37
Sinking fund and principal payments on debentures.....	5,254.84	822.48		6,077.32
Depreciation.....	21,583.00	836.00	31,834.00	54,253.00
Other reserves.....	1,000.00	1,000.00	3,500.00	5,500.00
Total operating costs and fixed charges.....	421,544.48	9,493.06	578,581.15	1,009,618.69
Net surplus.....	81,866.60	2,054.11	88,277.61	172,198.32
Net loss.....				
<b>NUMBER OF CONSUMERS</b>				
Domestic service.....	7,332	243	6,099	13,674
Commercial light service.....	1,061	54	907	2,022
Power service.....	119	5	113	237
Total.....	8,512	302	7,119	15,933

**"B"—Concluded****Hydro Municipalities for Year Ended December 31, 1944****NORTHERN ONTARIO DISTRICTS**

Capreol 1,663	North Bay 15,933	Sioux Lookout 1,734	Sudbury 34,020	NORTHERN ONTARIO DISTRICTS SUMMARY	ALL SYSTEMS GRAND SUMMARY
\$   c.	\$   c.	\$   c.	\$   c.	\$   c.	\$   c.
9,357.96	102,768.42	18,529.74	244,962.40	375,618.52	15,371,752.19
3,652.19	63,230.92	12,230.78	128,225.91	207,339.80	7,219,403.43
.....	51,992.79	1,405.98	42,390.34	95,789.11	16,222,143.48
706.66	6,926.75	.....	11,101.54	18,734.95	2,111,454.22
1,260.00	11,064.46	1,854.00	28,109.11	42,287.57	1,729,320.48
.....	1,823.58	195.42	.....	2,019.00	35,378.31
252.50	4,115.46	.....	5,494.16	9,862.12	897,433.28
15,229.31	241,922.38	34,215.92	460,283.46	751,651.07	43,586,885.39
.....	.....	.....	.....	.....	.....
8,087.08	143,881.00	25,550.36	289,732.55	467,250.99	26,937,460.31
.....	.....	.....	8,542.16	8,542.16	611,878.05
18.00	2,077.68	.....	.....	2,095.68	419,983.12
1,779.03	6,139.57	1,324.94	16,232.47	25,476.01	1,147,646.14
.....	1,091.35	68.83	2,202.74	3,362.92	145,701.29
188.22	2,621.72	268.35	6,785.74	9,864.03	445,437.44
.....	329.66	1.00	451.46	782.12	513,069.47
603.89	2,144.52	384.55	7,426.21	10,559.17	446,829.60
.....	104.86	.....	29.79	134.65	156,566.54
1,180.35	9,694.44	3,135.37	24,840.71	38,850.87	1,264,759.35
1,139.99	8,723.34	944.78	15,076.41	25,884.52	1,139,174.46
99.31	4,118.68	130.29	6,974.59	11,322.87	522,204.17
179.38	440.15	307.54	3,389.22	4,316.29	104,222.84
.....	2,706.80	.....	4,319.17	7,025.97	707,925.20
.....	9,500.00	.....	10,711.56	20,211.56	1,564,537.45
973.00	17,635.00	489.00	23,058.00	42,155.00	2,668,439.61
.....	10,000.00	.....	27,000.00	37,000.00	852,675.21
14,248.25	221,208.77	32,605.01	446,772.78	714,834.81	39,648,510.25
981.06	20,713.61	1,610.91	13,510.68	36,816.26	3,938,375.14
.....	.....	.....	.....	.....	.....
344	3,379	512	8,734	12,969	574,469
48	666	59	1,098	1,871	77,376
1	86	2	112	201	13,792
393	4,131	573	9,944	15,041	665,637

**STATEMENT "C"****Street Lighting Installation in Hydro Municipalities**

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**Due to restrictions and changes resulting from orders of the Dominion Power Controller and economies effected by municipal co-operative action, statistics relating to Street Lighting are not presented in this year's Annual Report**

**STATEMENT "D"**

(pages 290 to 307)

**Statistics relating to the Supply of Electrical Energy to Consumers  
in Ontario Urban Municipalities Served by  
The Hydro-Electric Power Commission  
for the year 1944**

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**STATEMENT "E"**

(pages 308 to 325)

**Cost of Power to Municipalities and Rates to Consumers for  
Domestic Service—Commercial Light Service—Power Service  
in Ontario Urban Municipalities Served by  
The Hydro-Electric Power Commission  
for the year 1944**

### STATEMENT "D"

#### Statistics Relating to the Supply of Electrical Energy to Consumers in Urban Municipalities Served by The Hydro-Electric Power Commission

Regarding the results of Hydro operation from the standpoint of the consumers, the following tabulation gives much useful and interesting information. For each main class of service in each urban municipal utility receiving power at cost from the Commission, Statement "D" lists the revenue, the consumption and the number of consumers, together with unit average costs and consumptions and other pertinent data.

The policy and practice of the Commission has been, and is, to make as widespread and beneficial a distribution of electrical energy as possible, and to extend to every community that can economically be reached by transmission lines, the benefit of electrical service. Even where, in certain localities, by reason of the distance from a source of supply or on account of the small quantity of power required by the municipality, the cost per horsepower to the municipality—and, consequently, the cost of service to the consumer—must unavoidably be higher than in more favourably situated communities, service has not been withheld when the consumers were able and willing to pay the cost.

The accompanying diagram summarizes graphically certain data of Statement "D" respecting the average cost to the consumer. It will be observed that the total amount of energy sold in municipalities where circumstances necessitate rates which result in the higher average costs to the consumer is relatively insignificant. With respect to power service, it should be noted that the statistics of Statement "D", and of the diagram, cover mainly retail power service supplied to the smaller industrial consumers. The average amount of power taken by the industrial consumers served by the municipalities is about 45 horsepower. The Commission serves certain large power consumers direct on behalf of the systems of municipalities.

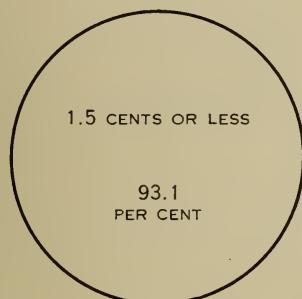
It should be kept in mind that the revenues reported in Statement "D", and used for purposes of calculating the net unit costs to the consumer, are the total revenues contributed by the consumers, and provide, in addition to the cost of power, sums specifically applicable to the retirement of capital, and also operating surplus which is in part applied to retirement of capital or extension of plant and is in part returned in cash to the consumers.

It should also be noted that average costs per kilowatt-hour or per horsepower if employed indiscriminately as a criterion by means of which to compare the rates or prices for electrical service in various municipalities, will give misleading results. The average cost per kilowatt-hour, as given in Statement "D" for respective classes of service in each municipality, are statistical results obtained by dividing the respective revenues by the aggregate kilowatt-hours sold. As such, the data reflect the combined influence of a number of factors, of which the rates or prices to consumers are but one factor. Owing to the varying influence of factors other than the rates, it is seldom found that in any two municipalities the average cost per kilowatt-hour to the consumers, even of the same classification, is in proportion to the respective rates for service. Instances even occur where for a class of consumers in one municipality, the average costs per kilowatt-hour are substantially lower than for the same class in another municipality, even though the rates are higher.

**COST OF ELECTRICAL SERVICE TO CONSUMERS  
IN MUNICIPALITIES SERVED BY  
THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO**

**DOMESTIC SERVICE**

THE AREAS OF THE CIRCLES REPRESENT PROPORTIONATELY THE TOTAL KILOWATT-HOURS SOLD FOR DOMESTIC SERVICE IN MUNICIPALITIES WHERE THE AVERAGE CHARGE TO CONSUMERS INCLUSIVE OF ALL CHARGES IS, PER KILOWATT-HOUR:



1.6 TO 2.9 CENTS

6.7  
PER CENT

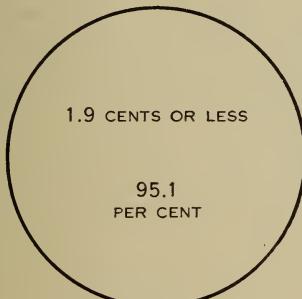
3.0 CENTS  
OR MORE

0.2  
PER CENT

O

**COMMERCIAL LIGHT SERVICE**

THE AREAS OF THE CIRCLES REPRESENT PROPORTIONATELY THE TOTAL KILOWATT-HOURS SOLD FOR COMMERCIAL LIGHT SERVICE IN MUNICIPALITIES WHERE THE AVERAGE CHARGE TO CONSUMERS INCLUSIVE OF ALL CHARGES IS, PER KILOWATT-HOUR:



2.0 TO 3.9 CENTS

4.8  
PER CENT

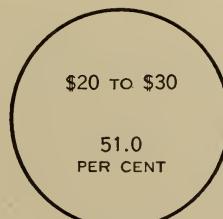
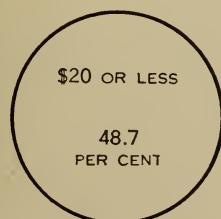
4.0 CENTS  
OR MORE

0.1  
PER CENT

O

**POWER SERVICE SUPPLIED BY MUNICIPALITIES**

THE AREAS OF THE CIRCLES REPRESENT PROPORTIONATELY THE AGGREGATE HORSEPOWER SOLD FOR POWER SERVICE IN MUNICIPALITIES WHERE THE AVERAGE CHARGE TO CONSUMERS INCLUSIVE OF ALL CHARGES IS, PER HORSEPOWER PER YEAR:



\$30 OR MORE

0.3  
PER CENT

O

With respect to domestic service, for example, instances may be observed where two municipalities have identical prices or rates for domestic service, but the average cost per kilowatt-hour to the consumer varies by as much as 50 per cent or more. Such variations are due principally to differences in the extent of utilization of the service for the operation of electric ranges, water heaters and other appliances, an indication of which is afforded by the statistics of average monthly consumption.

In the case of power service, average unit costs are still less reliable as an indication of the relative rates for service in different municipalities. In the case of hydro-electric power supplied to industries at cost, the rate schedules incorporate charges both for demand and for energy consumption, and thus, although the quantity of power taken by a consumer—that is, the demand as measured in horsepower—is the most important factor affecting costs and revenues, it is not the only one. The number of hours the power is used in the month or year—which, in conjunction with the power, determines the energy consumption, as measured in kilowatt-hours—also affects the costs and revenues. Consequently, in two municipalities charging the same rates for power service, the average cost per horsepower to the consumer will vary in accordance with the consumers' average number of hours use of the power per month. A greater average energy consumption per horsepower increases the average cost per horsepower and decreases the average cost per kilowatt-hour to the consumer, and *vice versa*.\*

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\*In view of the fact that the data of Statement "D" have been misinterpreted in the making of certain comparisons as to the cost of electricity in various territories, it is desirable to add a word of caution respecting their significance. Essentially, the average cost or revenue per kilowatt-hour is *not a criterion of rates* even with similar forms of rate schedules and for the same class of service. Particularly is this true when revenues and consumptions of all classes of service and of all kinds of rate schedules, are indiscriminately lumped together in order to deduce a so-called "average cost or rate per kilowatt-hour" for all services.

*In one community rates for each class of service, and the cost to every consumer in each class for any given service and consumption, may be substantially higher than in another community, and yet there may be in the former community a lower "average revenue per kilowatt-hour."*

EXAMPLE.—Assume sales of electrical energy by two electric utilities, A and B, in each case 10,000,000 kilowatt-hours.

Class of service	CASE A Higher rates and lower revenues per kilowatt-hour			CASE B Lower rates and higher revenues per kilowatt-hour		
	Energy sales	Rate per kw-hr.	Revenue	Energy sales	Rate per kw-hr.	Revenue
Residence.....	kw-hr. 1,000,000	cents 4	\$ 40,000	kw-hr. 3,000,000	cents 3	\$ 90,000
Power.....	9,000,000	1	90,000	7,000,000	0.75	52,500
Total.....	10,000,000	....	130,000	10,000,000	....	142,500
Average revenue.....	1.3 cents per kw-hr.			1.425 cents per kw-hr.		

It will be observed that in Case A the rates both for residence and for power service are 33 per cent *higher* than in Case B, but the *average revenue* per kilowatt-hour is nearly 9 per cent less.

In this instance, the explanation lies in the *relative quantities* of energy sold to each class. Service to large power consumers entails a smaller capital investment in distribution lines and equipment and lower operating costs per kilowatt-hour delivered, than does service to domestic and to commercial light consumers, and even where the rates for all classes of service are low, produces a smaller average revenue per kilowatt-hour. Consequently, if one electrical utility as compared with another sells a larger proportion of its energy for power purposes, its "average revenue per kilowatt-hour" may easily be lower than that of the other utility even though its rates for every class of service are substantially higher.

Although the derived statistics of Statement "D" are valueless as a means of comparing the *rates* in one municipality with those in another, they nevertheless fulfil a function in affording a general measure of the *economy of service* to consumers in the co-operating Ontario municipalities—an economy that has resulted primarily from the low rates themselves, and secondarily from the extensive use of the service that has been made possible by the low rates.

Actual bills rendered to typical consumers for similar service under closely comparable circumstances constitute the best basis for making comparisons. In researches respecting rates to consumers therefore the actual *rate schedules* of Statement "E" should be employed and not statistics of average revenues per kilowatt-hour, as these are valueless for rate comparisons—and particularly so when all classifications of service are combined.

In any consideration of the relative economies of electrical service in the various municipalities—whether based on the actual rates for service as set forth in Statement "E", or on the derived statistics resulting from the rates and other factors as presented in Statement "D"—full account should be taken respectively of the influence upon costs of such factors as the size of the municipality, the distance from the source of power, the features of the power developments, the sizes and concentrations of adjacent markets for electricity, and the sizes and characters of the loads supplied under the various classifications by the local electrical utility to the consumers.

In Statement "D" account has been taken of the sizes of municipalities by grouping them according to whether they are (i) cities—over 10,000 population; (ii) towns of 2,000 to 10,000 population; or (iii) small towns less than 2,000 population, villages, and suburban areas in townships (which are comparable in respect of conditions of supply to the smaller towns and villages). The populations are also given, and the situation of any municipality with respect to transmission lines and power supplies may be ascertained by consulting the maps at the end of the Report.

A feature of the electrical service in Ontario municipalities served by The Hydro-Electric Power Commission is the strikingly large average annual consumption per domestic consumer. Of the 90 cities and towns with populations of 2,000 or more—in which over 85 per cent of the domestic consumers of the undertaking are served—no less than 88 have an average annual consumption per domestic consumer in excess of 1,000 kilowatt-hours; of these, 68 have an average annual consumption per domestic consumer in excess of 1,500 kilowatt-hours, 39 in excess of 2,000 kilowatt-hours, and 10 in excess of 3,000 kilowatt-hours. In addition 111 smaller urban municipalities have an average annual consumption per domestic consumer exceeding 1,000 kilowatt-hours, including 26 in excess of 2,000 kilowatt-hours.

The high average consumption for domestic service results essentially from the policy of the undertaking in providing service "at cost"; the rate schedules designed according to this principle automatically encourage liberal use of the service. Under the standard rate schedules employed by Ontario municipalities, follow-up rates of 0.8 to 1.2 cents (less 10 per cent) are in common use, and as a rule even where the higher initial rates per kilowatt-hour obtain, it is only necessary for the domestic consumer to reach a monthly charge of from \$2.00 to \$3.00 to obtain the benefit of a follow-up rate of 1.8 cents net or less. The cost of electric cooking is thus within reach of most of the domestic consumers in Ontario. Electric water heating is also encouraged by low flat rates for continuous heaters and by installation of equipment without capital cost to the consumer. In 1941, war conditions made necessary the suspension of new installations for water heating.

## STATEMENT

**Statistics Relating to the Supply of Electrical Energy to Consumers  
For Domestic Service, for Commercial Light Service  
Group I—CITIES**

Municipality	System	Popula- tion	Domestic service					
			Revenue	Consumption	Number of con- sumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.
Belleville.....	S.O.	14,969	\$ 106,108.78	12,686,086	3,939	267	2.24	0.83
Brantford.....	S.O.	32,778	199,643.13	17,767,877	8,337	178	2.00	1.16
Chatham.....	S.O.	17,241	101,076.14	6,457,077	4,575	117	1.84	1.57
Fort William.....	T.B.	29,061	265,368.79	40,697,530	7,332	463	3.02	0.65
Galt.....	S.O.	15,025	122,554.88	9,953,485	4,296	193	2.38	1.23
Guelph.....	S.O.	23,195	125,964.20	11,462,585	5,703	167	1.84	1.10
Hamilton.....	S.O.	167,505	1,038,995.07	91,032,696	43,700	174	1.98	1.14
Kingston.....	S.O.	30,569	223,097.46	21,743,368	7,867	230	2.36	1.03
Kitchener.....	S.O.	35,745	253,378.52	22,600,881	8,718	216	2.42	1.12
London.....	S.O.	81,158	618,624.59	59,537,164	19,859	250	2.60	1.04
Niagara Falls.....	S.O.	20,118	142,578.80	13,823,089	4,984	231	2.38	1.03
North Bay.....	N.O.P.	15,933	102,768.42	7,432,493	3,379	183	2.54	1.38
Oshawa.....	S.O.	26,843	248,450.99	16,908,340	6,765	208	3.05	1.47
Ottawa.....	S.O.	158,581	667,126.27	79,255,435	15,658	421	3.55	0.84
Owen Sound.....	S.O.	13,591	71,768.02	5,695,313	3,663	130	1.63	1.26
Peterborough.....	S.O.	27,776	203,077.98	19,881,555	6,702	247	2.52	1.02
Port Arthur.....	T.B.	24,424	162,057.23	18,874,510	6,099	258	2.21	0.86
St. Catharines.....	S.O.	32,559	200,564.45	18,624,590	8,742	178	1.91	1.08
St. Thomas.....	S.O.	17,773	142,387.96	15,073,760	4,718	266	2.51	0.94
Sarnia.....	S.O.	17,840	118,017.87	8,521,032	5,403	131	1.82	1.39
Stratford.....	S.O.	16,993	146,317.69	12,029,033	4,561	220	2.67	1.22
Sudbury.....	N.O.P.	34,020	244,962.40	17,991,413	8,734	172	2.34	1.36
Toronto.....	S.O.	674,285	3,943,084.45	387,374,319	154,146	209	2.13	1.02
Toronto D.C. & 60 cycle*								
Welland.....	S.O.	14,899	8,198.01	308,100	156	164	4.36	2.66
Windsor.....	S.O.	109,948	761,143.99	59,087,785	26,909	183	2.36	1.29
Woodstock.....	S.O.	12,745	89,747.49	8,279,470	3,448	200	2.17	1.08

\* This—with the exception of a relatively small D.C. power load—is a special service not created by The Hydro-Electric Power Commission but acquired through the purchase of a privately owned company. It does not include street railway power.

## GROUP II—TOWNS

Amherstburg.....	S.O.	2,709	24,745.57	2,006,579	734	228	2.81	1.23
Arnprior.....	S.O.	4,027	20,059.47	1,185,284	891	111	1.88	1.69
Aurora.....	S.O.	2,914	22,192.81	1,606,549	793	169	2.33	1.38
Aylmer.....	S.O.	2,474	16,090.66	1,320,380	758	145	1.77	1.22
Barrie.....	S.O.	10,339	91,647.34	7,478,160	2,471	252	3.09	1.23
Bowmanville.....	S.O.	3,800	33,841.77	2,230,915	1,234	150	2.28	1.52
Brampton.....	S.O.	6,146	50,124.01	4,333,341	1,627	222	2.57	1.16
Brockville.....	S.O.	10,463	67,556.49	6,246,487	3,101	168	1.81	1.08
Carleton Place.....	S.O.	3,865	23,075.81	1,614,299	1,076	124	1.77	1.43
Clinton.....	S.O.	2,037	16,486.13	1,107,615	593	156	2.32	1.49
Cobourg.....	S.O.	5,560	40,205.96	2,513,661	1,443	145	2.32	1.60
Collingwood.....	S.O.	6,324	38,693.23	2,427,682	1,650	123	1.95	1.59
Delhi.....	S.O.	2,093	13,060.92	703,520	609	96	1.79	1.87
Dundas.....	S.O.	5,257	29,617.74	2,028,265	1,458	116	1.69	1.46
Dunnville.....	S.O.	4,137	18,362.94	1,067,818	1,063	84	1.44	1.72

**"D"**
**in Ontario Municipalities Served by the Commission  
and for Power Service during the year 1944**
**Population, 10,000 or more**

Commercial Light service						Power service			Total number of consumers
Revenue	Consumption	Number of consumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.	Revenue	Number of consumers	Average monthly horsepower	
\$ c.	kw-hr.	kw-hr.	\$ c.	cents	\$ c.	kw-hr.	Number of consumers	Average monthly horsepower	Total number of consumers
57,064.99	4,665,170	636	611	7.48	1.22	58,992.96	105	3,741.0	4,680
83,520.33	7,993,452	1,236	539	5.63	1.04	356,775.08	210	19,452.1	9,783
97,301.01	6,656,322	848	654	9.56	1.46	99,961.17	109	4,661.0	5,532
102,001.61	10,148,492	1,061	797	8.00	1.01	111,801.21	119	6,378.9	8,512
61,016.59	3,929,752	500	655	10.17	1.55	173,884.55	118	8,985.8	4,914
50,685.58	4,250,511	799	443	5.29	1.19	144,729.85	141	8,704.4	6,643
490,427.81	43,790,360	5,423	673	7.54	1.12	2,981,446.68	1,056	154,477.1	50,179
141,534.95	12,156,278	1,036	977	11.38	1.16	170,789.96	171	8,966.8	9,074
129,995.40	8,578,039	1,115	641	9.71	1.51	449,380.57	285	21,658.7	10,118
211,223.50	16,885,158	1,878	749	9.37	1.25	576,175.53	455	30,927.5	22,192
62,576.95	5,467,848	729	625	7.15	1.14	110,642.09	111	6,429.8	5,824
63,230.92	3,573,987	666	451	7.98	1.77	58,919.54	86	2,225.6	4,131
75,811.99	4,005,165	705	473	8.95	1.89	341,620.14	119	14,991.6	7,589
310,607.42	24,385,185	1,468	1,384	17.57	1.27	92,380.60	208	5,708.5	17,334
45,959.32	3,077,008	544	471	7.04	1.49	80,236.81	103	4,410.5	4,310
90,726.73	5,794,679	916	527	8.25	1.57	166,239.23	170	8,718.0	7,788
90,804.22	8,023,315	907	737	8.33	1.13	360,315.54	113	22,881.1	7,119
95,108.16	8,571,011	1,055	677	7.51	1.11	482,642.17	213	27,152.7	10,010
51,641.64	4,415,164	613	600	7.02	1.17	72,066.68	82	4,359.9	5,413
54,812.14	3,948,212	614	536	7.44	1.39	208,522.47	87	8,687.6	6,104
52,482.05	3,205,512	589	454	7.43	1.64	70,737.04	114	3,552.0	5,264
128,225.91	7,070,886	1,098	537	9.73	1.81	53,491.88	112	2,209.0	9,944
2,458,332.80	189,192,195	23,137	681	8.85	1.30	4,999,289.47	4,453	222,841.0	181,736
45,484.07	1,217,420	301	337	12.59	3.74	254,968.88	722	10,525.0	1,179
36,810.61	3,348,821	463	603	6.63	1.10	209,058.22	88	10,843.8	3,815
400,489.52	28,918,384	3,267	738	10.22	1.38	858,583.63	506	42,287.2	30,682
49,617.31	3,840,495	465	688	8.89	1.29	108,945.42	97	6,510.8	4,010

NOTE—The above group of 26 cities utilizes about 72 per cent of the power distributed by the Commission to Ontario municipalities, including rural service.

†Does not include street railway power.

**of Population, 2,000 or more**

9,060.40	544,448	130	349	5.81	1.66	11,280.81	16	464.1	880
9,536.06	393,875	140	234	5.66	2.42	19,813.12	20	1,001.5	1,051
6,136.13	420,685	113	310	4.53	1.46	17,403.33	19	845.0	925
10,256.71	710,932	148	400	5.77	1.44	8,343.45	15	508.3	921
42,847.82	2,802,714	414	564	8.62	1.53	31,563.32	60	1,646.8	2,945
10,705.24	536,207	157	285	5.70	2.00	67,888.38	27	2,758.9	1,418
19,361.35	1,234,181	248	415	6.51	1.57	23,463.18	51	1,344.4	1,926
27,298.29	2,241,537	395	473	5.76	1.22	60,111.35	74	3,345.5	3,570
8,821.55	435,812	174	209	4.22	2.02	29,427.90	18	1,514.3	1,268
8,250.09	443,265	125	296	5.50	1.86	6,658.98	17	316.1	735
19,867.58	1,010,162	234	360	7.08	1.97	28,225.19	47	1,467.2	1,724
14,492.72	800,607	208	321	5.81	1.81	39,878.64	48	2,236.9	1,906
9,928.39	461,243	155	248	5.34	2.15	6,862.37	9	274.6	773
14,998.45	927,276	200	386	6.25	1.62	42,171.96	39	2,666.1	1,697
14,130.72	912,052	210	362	5.61	1.55	20,368.35	27	1,088.0	1,300

**STATEMENT**  
**Statistics Relating to the Supply of Electrical Energy to Consumers**  
**For Domestic Service, for Commercial Light Service**  
**Group II—TOWNS**

Municipality	System	Popula- tion	Domestic service					Net cost per kwh.
			Revenue	Consumption	Number of con- sumers	Average monthly consumption	Average monthly bill	
Elmira.....	S.O.	2,176	\$ 17,094.63	kw-hr. 1,209,711	554	kw-hr. 182	\$ c. 2.57	cents 1.41
Fergus.....	S.O.	2,883	21,113.76	1,254,870	770	136	2.29	1.68
Forest Hill.....	S.O.	12,954	220,865.09	18,413,053	3,537	434	5.20	1.20
Georgetown.....	S.O.	2,498	21,419.12	1,674,008	833	167	2.14	1.28
Goderich.....	S.O.	4,922	38,138.96	2,594,957	1,361	159	2.34	1.47
Gravenhurst.....	S.O.	2,063	12,900.77	1,114,284	593	157	1.81	1.16
Hanover.....	S.O.	3,174	23,52.23	1,491,520	850	146	2.31	1.58
Hespeler.....	S.O.	3,023	18,760.43	1,312,646	825	133	1.90	1.43
Humberstone.....	S.O.	3,220	12,712.47	721,670	738	81	1.44	1.76
Huntsville.....	S.O.	2,849	15,691.35	1,316,378	744	147	1.76	1.19
Ingersoll.....	S.O.	5,810	35,342.02	2,783,768	1,568	148	1.88	1.27
Kincardine.....	S.O.	2,134	15,634.72	747,574	741	84	1.76	1.99
Kingsville.....	S.O.	2,290	15,210.03	983,973	641	128	1.98	1.55
Leamington.....	S.O.	5,619	30,395.21	2,113,352	1,688	104	1.50	1.44
Lindsay.....	S.O.	7,783	50,464.77	3,795,184	2,289	138	1.83	1.33
Listowel.....	S.O.	2,993	18,388.32	1,297,238	801	135	1.91	1.42
Long Branch.....	S.O.	5,320	38,575.88	2,821,368	1,564	150	2.06	1.37
Meaford.....	S.O.	2,676	15,067.31	813,956	757	90	1.66	1.85
Merritton.....	S.O.	3,189	20,226.90	1,624,708	962	141	1.76	1.24
Midland.....	S.O.	6,579	41,198.87	2,956,150	1,625	152	2.11	1.39
Mimico.....	S.O.	8,075	70,176.45	5,784,609	2,306	209	2.54	1.22
Napanee.....	S.O.	3,269	28,586.42	2,060,879	897	192	2.66	1.39
New Toronto.....	S.O.	8,360	48,428.19	3,704,660	2,029	152	1.99	1.31
Orangeville.....	S.O.	2,386	17,172.79	1,028,872	746	115	1.92	1.67
Paris.....	S.O.	4,608	26,659.36	2,185,930	1,215	150	1.83	1.22
Penetanguishene.....	S.O.	3,843	14,948.16	787,136	773	85	1.61	1.90
Perth.....	S.O.	4,154	28,613.25	2,149,424	1,110	161	2.14	1.33
Petrolia.....	S.O.	2,605	14,234.71	819,651	825	83	1.44	1.74
Picton.....	S.O.	3,383	26,744.48	1,957,205	1,336	122	1.67	1.36
Port Colborne.....	S.O.	7,050	34,577.64	1,928,855	1,655	97	1.74	1.79
Port Hope.....	S.O.	4,910	34,154.57	2,761,146	1,455	158	1.96	1.23
Prescott.....	S.O.	3,283	24,131.21	1,902,782	815	195	2.47	1.27
Preston.....	S.O.	6,707	39,797.05	3,140,840	1,689	155	1.96	1.26
Riverside.....	S.O.	5,525	44,426.15	2,626,882	1,559	140	2.37	1.69
St. Marys.....	S.O.	4,005	29,586.65	2,062,860	1,076	160	2.29	1.43
Simcoe.....	S.O.	6,224	29,081.52	2,056,050	1,678	102	1.44	1.41
Smiths Falls.....	S.O.	7,468	52,773.05	4,635,804	2,012	192	2.19	1.14
Strathroy.....	S.O.	3,060	23,580.58	1,957,305	876	186	2.24	1.20
Swansea.....	S.O.	7,033	72,710.46	6,170,206	2,096	245	2.89	1.18
Tecumseh.....	S.O.	2,628	17,237.29	744,620	711	87	2.02	2.31
Thorold.....	S.O.	5,374	23,384.61	1,783,372	1,274	117	1.53	1.31
Tillsonburg.....	S.O.	3,999	21,327.20	1,460,548	1,243	98	1.43	1.46
Trenton.....	S.O.	9,387	48,078.98	3,103,152	1,833	141	2.19	1.55
Walkerton.....	S.O.	2,619	20,003.48	1,042,200	687	126	2.43	1.92
Wallaceburg.....	S.O.	4,970	25,021.55	1,489,067	1,387	89	1.50	1.68
Waterloo.....	S.O.	9,349	72,632.95	7,730,825	2,306	279	2.62	0.94
Weston.....	S.O.	6,165	62,467.36	6,608,901	1,700	324	3.06	0.95
Whitby.....	S.O.	4,531	32,663.16	2,504,458	1,054	198	2.57	1.30
Wingham.....	S.O.	2,058	13,566.35	716,268	560	107	1.92	1.89

## **“D”—Continued**

**in Ontario Municipalities Served by the Commission  
and for Power Service during the year 1944**

**population, 2,000 or more**

Commercial Light service						Power service			Total number of consumers
Revenue	Consumption	Number of consumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.	Revenue	Number of consumers	Average monthly horsepower	
\$ 9,690.18	495,307	118	350	6.84	1.96	\$ 24,115.56	26	1,009.1	698
9,055.91	473,935	118	335	6.40	1.91	20,319.33	12	885.3	900
25,429.82	1,676,701	243	575	8.72	1.51	3,534.87	26	192.3	3,806
7,761.43	453,126	125	302	5.17	1.71	32,989.09	28	1,556.4	986
17,685.11	876,807	251	291	5.87	2.02	23,059.25	21	991.1	1,633
12,522.08	1,189,622	99	1,001	10.54	1.05	16,819.82	16	856.1	708
9,114.13	469,100	128	305	5.93	1.94	21,277.27	23	809.5	1,001
5,799.47	352,413	88	334	5.55	1.66	56,483.21	30	2,572.2	943
4,621.86	293,039	79	309	4.88	1.58	6,628.35	12	348.9	821
11,203.00	801,210	135	495	6.92	1.40	15,227.87	17	215.8	896
17,236.49	1,237,740	224	460	6.41	1.39	48,988.47	45	2,717.2	1,837
8,215.04	286,572	123	194	5.57	2.87	13,402.33	17	521.9	881
9,234.02	563,082	160	293	4.81	1.64	6,176.24	23	365.8	824
17,319.81	1,242,002	283	366	5.10	1.39	24,793.22	33	1,257.9	2,004
30,115.68	1,668,570	334	416	7.49	1.80	61,899.17	68	2,735.8	2,691
11,625.93	634,835	161	329	6.02	1.83	20,045.69	25	1,057.8	987
6,640.12	437,016	106	344	5.22	1.52	13,542.31	10	614.8	1,680
8,765.17	467,052	155	251	4.71	1.88	10,404.07	21	570.6	933
4,674.64	340,605	60	473	6.49	1.37	240,619.74	17	12,002.1	1,039
18,538.62	1,158,848	193	500	8.00	1.60	82,051.57	52	4,968.4	1,870
11,380.58	839,420	140	500	6.77	1.35	16,837.52	26	708.0	2,472
17,544.12	815,351	204	333	7.17	2.15	11,186.57	24	607.4	1,125
18,625.71	1,506,157	217	578	7.15	1.24	273,507.16	36	12,248.0	2,282
9,872.26	516,299	150	287	5.48	1.91	7,728.94	27	415.0	923
9,205.58	671,601	192	291	4.00	1.37	26,215.00	25	1,549.3	1,432
9,066.62	459,425	103	372	7.34	1.97	21,860.44	21	913.3	897
15,631.03	947,416	192	411	6.78	1.65	17,246.29	30	954.8	1,332
7,754.31	356,395	139	214	4.65	2.18	24,665.00	57	921.6	1,021
15,519.65	976,530	204	399	6.34	1.59	7,558.06	37	368.3	1,577
19,583.15	1,176,487	233	421	7.00	1.66	30,851.07	24	1,488.5	1,912
14,273.59	813,725	203	330	5.86	1.75	38,982.70	40	1,995.6	1,698
11,016.29	655,162	139	393	6.60	1.68	14,644.25	23	807.3	977
20,543.02	1,291,616	225	478	7.61	1.59	64,604.46	54	3,567.3	1,968
5,602.93	306,958	60	426	7.78	1.83	7,736.92	12	313.8	1,631
10,832.66	525,302	172	255	5.25	2.06	26,638.19	38	1,086.4	1,286
30,035.67	2,281,680	390	488	6.42	1.32	33,224.22	43	1,737.6	2,111
16,712.70	1,146,837	213	449	6.55	1.46	30,058.04	37	1,500.3	2,262
11,589.91	736,760	173	355	5.58	1.58	17,746.47	31	1,137.4	1,080
9,075.32	547,114	95	480	7.96	1.66	27,584.57	16	1,220.8	2,207
5,205.63	244,940	53	385	8.18	2.13	2,071.77	3	85.0	767
8,807.93	731,109	158	386	4.65	1.20	48,865.55	19	2,288.0	1,451
17,550.33	1,277,750	253	421	5.78	1.37	16,660.14	36	943.6	1,532
22,779.98	1,395,453	270	431	7.03	1.63	91,584.09	55	4,170.1	2,158
11,279.54	709,382	132	448	7.12	1.59	10,433.36	21	391.0	840
15,352.28	982,955	231	355	5.54	1.56	110,516.20	46	4,632.7	1,664
25,083.15	1,840,560	253	606	8.26	1.36	73,808.37	74	3,806.0	2,633
12,390.64	1,046,264	179	487	5.77	1.18	74,380.48	33	3,734.8	1,912
12,771.55	800,303	161	414	6.62	1.60	20,436.46	27	894.7	1,242
8,586.66	498,444	145	286	4.93	1.72	14,956.33	25	597.7	730

## STATEMENT

**Statistics Relating to the Supply of Electrical Energy to Consumers  
For Domestic Service, for Commercial Light Service**  
**Group III—SMALL TOWNS (less than 2,000 population),**

NOTE—The power used by the small municipalities in the following group—excluding the large suburban communities in the townships adjacent to Toronto—together with all power distributed for rural service, amounts to about 14 per cent of the total power distributed by the Commission to municipalities for local distribution, and to rural power districts. Widespread

Municipality	System	Population	Domestic service					
			Revenue	Consumption	Number of consumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.
Acton.....	S.O.	1,927	\$ 14,521.65	c. 1,128,551	544	173	2.22	1.3
Agincourt.....	S.O.	P.V.	6,067.83	441,192	168	219	3.01	1.4
Ailsa Craig.....	S.O.	446	2,901.51	148,570	147	84	1.64	1.9
Alexandria.....	S.O.	1,975	7,783.74	281,125	415	56	1.56	2.8
Alliston.....	S.O.	1,504	13,432.94	665,219	447	124	2.50	2.0
Alvinston.....	S.O.	648	3,655.19	102,750	205	42	1.49	3.6
Ancaster Twp.....	S.O.		14,077.52	934,296	394	198	2.98	1.5
Apple Hill.....	S.O.	P.V.	1,400.35	34,223	66	32	1.77	4.1
Arkona.....	S.O.	368	3,135.18	99,689	117	71	2.23	3.1
Arthur.....	S.O.	896	5,753.43	200,018	199	84	2.41	2.9
Athens.....	S.O.	641	3,542.48	85,850	183	39	1.61	4.1
Ayr.....	S.O.	693	6,615.87	391,305	227	144	2.43	1.7
Baden.....	S.O.	P.V.	4,286.98	308,088	168	153	2.13	1.4
Bath.....	S.O.	293	2,788.01	80,170	64	104	3.63	3.5
Beachville.....	S.O.	P.V.	4,017.65	247,995	167	124	2.00	1.6
Beamsville.....	S.O.	1,295	12,597.35	1,043,775	399	218	2.63	1.2
Beaverton.....	S.O.	839	7,175.78	411,158	331	104	1.81	1.7
Beeton.....	S.O.	514	3,396.53	100,650	148	57	1.91	3.4
Belle River.....	S.O.	765	6,030.69	251,610	314	67	1.60	2.4
Blenheim.....	S.O.	1,765	9,788.19	586,803	560	87	1.46	1.7
Bloomfield.....	S.O.	581	3,504.85	165,274	181	76	1.61	2.1
Blyth.....	S.O.	632	3,785.02	191,101	184	86	1.71	2.0
Bolton.....	S.O.	591	4,957.64	312,580	172	151	2.40	1.6
Bothwell.....	S.O.	605	2,639.30	156,180	185	70	1.19	1.7
Bradford.....	S.O.	992	7,100.78	279,000	291	80	2.03	2.5
Brantford Twp.....	S.O.		36,185.92	2,456,013	1,476	169	2.49	1.5
Brechin.....	S.O.	P.V.	1,456.03	37,460	53	59	2.29	3.9
Bridgeport.....	S.O.	P.V.	5,664.97	290,682	178	136	2.65	1.9
Brigden.....	S.O.	P.V.	2,435.25	85,910	125	57	1.62	2.8
Brighton.....	S.O.	1,517	12,029.66	461,387	563	68	1.78	2.6
Brussels.....	S.O.	776	4,834.81	187,170	256	61	1.57	2.6
Burford.....	S.O.	P.V.	5,902.33	438,378	235	155	2.09	1.3
Burgessville.....	S.O.	P.V.	1,914.97	79,226	64	103	2.49	2.4
Caledonia.....	S.O.	1,410	7,326.01	387,008	452	71	1.35	1.9
Campbellville.....	S.O.	P.V.	1,340.64	58,845	50	98	2.23	2.3
Cannington.....	S.O.	731	5,895.77	240,432	262	76	1.88	2.5
Capreol.....	N.O.P.	1,663	9,357.96	432,872	344	105	2.27	2.2
Cardinal.....	S.O.	1,633	9,048.58	598,480	394	127	1.92	1.5
Cayuga.....	S.O.	651	4,131.20	156,577	186	70	1.85	2.6
Chatsworth.....	S.O.	356	2,537.25	118,170	108	91	1.96	2.1

**"D"—Continued**

in Ontario Municipalities Served by the Commission

and for Power Service during the year 1944

**VILLAGES AND SUBURBAN AREAS**

distribution to small communities has always characterized Hydro service and although the power used in the smaller places and rural districts is a relatively small proportion of the power distributed by the Commission, it exerts upon the economic life of the Province a most beneficial influence. Consult also introduction to Statement "D", page 290.

Commercial Light service						Power service			Total number of consumers
Revenue	Consumption	Number of consumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.	Revenue	Number of consumers	Average monthly horse-power	
\$ c.	kw-hr.		kw-hr.	\$ c.	cents	\$ c.			
5,261.47	354,827	87	340	5.04	1.5	33,349.50	20	1,379.8	651
1,323.01	45,894	28	137	3.94	2.9	818.16	2	45.3	198
1,039.02	43,481	33	110	2.62	2.4	1,657.75	4	67.9	184
4,645.23	163,722	96	142	4.03	2.8	5,332.79	16	165.6	527
7,900.49	283,366	116	204	5.68	2.8	4,151.81	18	120.2	581
1,820.50	61,477	53	97	2.86	3.0	1,071.02	4	30.7	262
4,174.45	192,836	45	357	7.73	2.2	968.55	9	60.9	448
941.42	36,461	22	168	3.57	2.5	544.34	2	21.6	90
1,497.72	41,395	33	105	3.78	3.6	379.35	2	8.7	152
4,870.27	127,944	84	127	4.83	3.8	1,652.87	7	94.7	290
1,599.40	51,840	45	96	2.96	3.1	983.70	1	36.6	229
2,053.36	106,012	44	200	3.89	1.9	676.04	4	22.3	275
2,034.80	110,685	31	297	5.46	1.8	10,598.35	3	439.9	202
545.42	12,170	9	113	5.05	4.5	.....	.....	.....	73
603.09	22,569	22	85	2.28	2.7	18,537.54	4	730.2	193
5,032.15	268,198	70	319	5.99	1.9	2,311.42	6	123.3	475
2,271.54	119,030	62	160	3.05	1.9	928.83	8	49.5	401
1,948.16	53,285	33	135	4.92	3.7	3,321.50	4	102.8	185
2,925.70	162,740	46	295	5.30	1.8	1,390.70	2	37.9	363
8,023.19	479,131	146	273	4.58	1.7	7,772.96	17	342.8	723
2,399.34	98,922	41	201	4.88	2.4	1,266.36	8	55.0	230
1,973.74	78,994	45	146	3.65	2.5	921.39	4	41.4	233
2,072.00	91,642	43	178	4.02	2.3	2,957.38	10	121.2	225
2,017.87	101,090	51	165	3.29	2.0	889.60	7	85.9	243
4,087.28	112,757	71	132	4.80	3.6	3,677.24	12	162.7	374
4,845.37	290,726	69	351	5.85	1.6	6,802.61	5	274.2	1,550
630.55	20,192	22	76	2.39	3.1	811.86	3	41.0	78
1,270.84	50,271	21	199	5.04	2.5	306.12	3	15.3	202
1,809.54	67,040	38	147	3.97	2.7	1,067.46	4	29.6	167
4,258.47	190,912	95	67	3.74	2.2	6,774.56	9	322.0	667
3,353.83	114,492	69	138	4.05	2.9	1,093.74	5	43.7	330
1,833.73	106,936	39	228	3.92	1.7	1,326.96	5	70.2	279
568.30	23,006	17	113	2.79	2.5	257.80	2	13.9	83
5,057.91	329,616	100	275	4.21	1.5	2,633.50	12	134.3	564
515.77	18,707	11	283	7.81	2.8	385.51	1	7.5	62
2,155.75	79,044	64	103	2.81	2.7	2,640.76	8	129.7	334
3,652.19	174,640	48	303	6.34	2.1	706.66	1	25.0	393
2,263.75	113,600	53	179	3.56	2.0	322.42	2	18.0	449
3,321.21	11,035	68	135	4.07	3.0	1,000.90	7	50.8	261
1,373.88	53,627	29	154	3.95	2.6	.....	.....	.....	137

## STATEMENT

Statistics Relating to the Supply of Electrical Energy to Consumers  
For Domestic Service, for Commercial Light Service

## Group III—SMALL TOWNS (less than 2,000 population),

Municipality	System	Population	Domestic service					
			Revenue	Consumption	Number of consumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.
Chesley.....	S.O.	1,601	\$ 10,685.21	672,800	456	kw-hr. 123	1.95	1.6
Chesterville.....	S.O.	1,071	5,398.19	404,360	248	136	1.81	1.3
Chippawa.....	S.O.	1,294	9,276.30	778,276	364	178	2.12	1.2
Clifford.....	S.O.	456	3,055.97	138,007	130	88	1.96	2.2
Cobden.....	S.O.	595	2,669.71	128,372	160	66	1.38	2.1
Colborne.....	S.O.	916	7,167.48	330,210	285	97	2.10	2.2
Coldwater.....	S.O.	549	3,717.69	215,306	159	113	1.95	1.7
Comber.....	S.O.	P.V.	2,309.22	91,980	120	64	1.60	2.5
Cookstown.....	S.O.	P.V.	2,540.65	75,453	119	53	1.78	3.4
Cottam.....	S.O.	P.V.	2,588.71	103,310	131	66	1.65	2.5
Courtright.....	S.O.	313	1,609.21	56,407	91	52	1.47	2.9
Creemore.....	S.O.	628	3,661.31	133,010	176	63	1.73	2.8
Dashwood.....	S.O.	P.V.	2,281.79	101,986	102	83	1.86	2.2
Delaware.....	S.O.	P.V.	2,230.08	142,755	71	168	2.62	1.6
Deseronto.....	S.O.	1,052	9,333.20	392,826	395	83	1.97	2.4
Dorchester.....	S.O.	P.V.	3,179.71	173,739	157	92	1.69	1.8
Drayton.....	S.O.	523	3,658.54	137,446	167	69	1.83	2.7
Dresden.....	S.O.	1,519	7,708.55	415,931	466	74	1.38	1.9
Drumbo.....	S.O.	P.V.	2,617.24	128,060	90	108	2.22	2.0
Dublin.....	S.O.	P.V.	1,411.25	61,515	61	84	1.93	2.3
Dundalk.....	S.O.	705	3,978.68	205,390	210	82	1.54	1.9
Durham.....	S.O.	1,937	7,979.36	493,617	464	89	1.43	1.6
Dutton.....	S.O.	776	3,262.78	211,160	234	75	1.16	1.6
East York Twp.....	S.O.	283,143.50	19,683,226	11,918	138	1.97	1.4	
Elmvale.....	S.O.	P.V.	3,769.55	189,595	191	83	1.64	2.0
Elmwood.....	S.O.	P.V.	1,305.33	42,699	72	49	1.51	3.1
Elora.....	S.O.	1,167	8,478.73	464,823	355	109	1.99	1.8
Embro.....	S.O.	385	4,087.04	231,923	125	155	2.72	1.8
Erieau.....	S.O.	234	4,506.73	189,380	197	80	1.91	2.4
Erie Beach.....	S.O.	22	1,470.45	24,640	79	26	1.55	6.0
Essex.....	S.O.	1,959	9,518.17	571,970	528	90	1.50	1.7
Etobicoke Twp.....	S.O.	226,208.65	20,781,818	6,157	281	3.06	1.1	
Exeter.....	S.O.	1,627	16,321.84	1,209,268	544	185	2.50	1.3
Finch.....	S.O.	393	2,580.32	151,151	107	118	2.01	1.7
Flesherton.....	S.O.	414	2,117.81	94,310	126	62	1.40	2.2
Fonthill.....	S.O.	957	6,857.39	372,996	300	104	1.84	1.8
Forest.....	S.O.	1,565	14,253.14	896,460	510	146	2.33	1.6
Glencoe.....	S.O.	793	4,594.80	206,063	230	75	1.66	2.2
Grand Valley.....	S.O.	608	3,223.92	132,230	184	60	1.46	2.4
Granton.....	S.O.	P.V.	2,153.01	88,342	85	87	2.11	2.4

**"D"—Continued**

**in Ontario Municipalities Served by the Commission  
and for Power Service during the year 1944**

**VILLAGES AND SUBURBAN AREAS**

Commercial Light service						Power service			Total number of consumers
Revenue	Consumption	Number of consumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.	Revenue	Number of consumers	Average monthly horsepower	
\$ c.	kw-hr.		kw-hr.	\$ c.	cents	\$ c.			
5,930.80	321,995	90	298	5.49	1.8	7,501.10	21	412.4	567
3,838.82	177,950	68	218	4.70	2.2	2,788.94	4	119.9	320
2,341.98	158,650	51	259	3.83	1.5	1,214.72	1	36.7	416
1,805.63	74,296	33	188	4.56	2.4	760.25	2	22.1	165
2,479.34	74,935	48	130	4.29	3.3	2,105.63	2	64.4	210
3,376.91	119,702	72	138	3.91	2.8	1,138.01	5	49.0	362
1,674.08	66,795	51	109	2.74	2.6	2,372.23	3	88.5	213
1,721.01	62,775	39	134	3.68	2.7	2,227.99	5	105.1	164
1,244.28	30,677	31	82	3.34	4.1	1,412.43	4	64.9	154
1,320.09	55,150	28	164	3.93	2.4	429.35	2	21.0	161
701.18	29,695	20	124	2.92	2.4	974.64	1	12.5	112
1,894.33	66,445	48	115	3.29	2.9	1,386.77	3	77.8	227
1,469.83	49,034	28	146	4.37	3.0	1,325.96	3	52.7	133
670.99	24,305	14	145	3.99	2.8	.....	.....	.....	85
3,677.87	150,149	70	179	4.38	2.4	2,081.56	8	74.5	473
951.04	43,124	29	124	2.73	2.2	627.06	1	18.9	187
2,088.85	71,977	62	97	2.81	2.9	1,319.35	5	68.0	234
5,990.49	338,410	121	233	4.13	1.8	5,424.72	16	293.4	603
1,009.76	39,790	28	118	3.00	2.6	840.99	1	34.9	119
1,084.22	30,750	27	95	3.35	3.5	1,512.04	2	64.2	90
3,078.57	112,893	66	143	3.89	2.7	3,595.38	6	181.7	282
4,859.19	253,670	94	225	4.31	1.9	4,737.55	12	246.9	570
2,389.30	131,950	63	168	3.04	1.8	3,831.69	11	210.4	308
28,242.07	1,612,673	486	276	4.83	1.7	49,041.85	45	2,045.9	12,449
1,609.05	80,623	51	132	2.63	2.0	3,300.93	8	146.0	250
628.18	17,471	19	77	2.76	3.6	1,269.73	1	44.3	92
4,585.90	211,792	66	267	5.79	2.2	4,693.41	3	245.5	424
1,040.13	59,083	25	197	3.45	1.8	1,049.04	2	45.0	152
1,602.08	65,170	14	388	9.54	2.5	2,631.40	4	73.1	215
215.72	7,270	3	202	5.99	3.0	.....	.....	.....	82
8,991.62	611,350	125	408	5.99	1.5	8,484.91	17	497.4	670
27,464.19	1,850,355	311	496	7.36	1.5	48,372.34	44	2,009.9	6,512
8,297.27	478,669	126	317	5.49	1.7	5,175.53	15	307.0	685
1,711.37	66,271	34	162	4.19	2.6	199.12	1	5.0	142
1,625.53	61,509	45	114	3.01	2.6	785.03	2	33.8	173
2,007.88	93,649	36	217	4.65	2.1	489.36	5	18.9	341
7,522.16	386,630	135	239	4.64	2.0	6,198.37	21	260.1	666
3,476.50	161,656	73	185	3.97	2.2	3,480.25	11	143.1	314
1,994.51	72,890	48	127	3.46	2.7	3,132.12	7	114.7	239
1,141.72	51,080	26	164	3.66	2.2	.....	.....	.....	111

## STATEMENT

Statistics Relating to the Supply of Electrical Energy to Consumers  
For Domestic Service, for Commercial Light Service

## Group III—SMALL TOWNS (less than 2,000 population),

Municipality	System	Population	Domestic service					
			Revenue	Consumption	Number of consumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.
Grimsby.....	S.O.	1,998	\$ 19,610.18	c. 1,325,410	655	kw-hr. 169	\$ 2.49	1.5 cents
Hagersville.....	S.O.	1,524	8,398.18	476,990	406	97	1.72	1.8
Harriston.....	S.O.	1,287	8,300.48	497,597	378	110	1.83	1.7
Harrow.....	S.O.	1,136	12,412.55	910,006	350	217	2.96	1.4
Hastings.....	S.O.	719	4,239.10	154,356	238	54	1.48	2.7
Havelock.....	S.O.	907	4,632.02	183,119	295	52	1.31	2.5
Hensall.....	S.O.	659	4,917.71	231,120	210	92	1.95	2.1
Highgate.....	S.O.	310	1,776.36	66,860	107	52	1.38	2.7
Holstein.....	S.O.	P.V.	1,171.87	35,950	63	48	1.55	3.3
Iroquois.....	S.O.	1,037	6,338.27	332,583	279	99	1.89	1.9
Jarvis.....	S.O.	539	3,472.06	128,331	163	66	1.78	2.7
Kemptville.....	S.O.	1,140	8,789.71	462,485	393	98	1.86	1.9
Kirkfield.....	S.O.	P.V.	922.40	20,060	37	45	2.08	4.6
Lakefield.....	S.O.	1,314	7,356.25	364,713	360	84	1.68	2.0
Lambeth.....	S.O.	P.V.	3,740.17	217,179	140	129	2.23	1.7
Lanark.....	S.O.	692	2,981.24	118,501	173	57	1.43	2.5
Lancaster.....	S.O.	573	1,980.09	73,610	116	53	1.43	2.7
La Salle.....	S.O.	1,020	9,421.05	571,424	259	184	3.03	1.6
London Twp.....	S.O.	.....	16,897.05	1,395,821	494	235	2.85	1.2
Lucan.....	S.O.	607	4,455.64	307,153	186	138	2.00	1.5
Lucknow.....	S.O.	907	6,175.57	247,715	287	72	1.79	2.5
Lynden.....	S.O.	P.V.	3,092.43	170,270	105	135	2.45	1.8
Madoc.....	S.O.	1,106	5,686.42	249,197	318	65	1.49	2.3
Markdale.....	S.O.	771	3,713.79	261,126	231	94	1.34	1.4
Markham.....	S.O.	1,162	8,943.49	561,682	350	134	2.13	1.6
Marmora.....	S.O.	933	4,781.29	166,928	249	56	1.60	2.9
Martintown.....	S.O.	P.V.	900.63	40,494	56	60	1.34	2.2
Maxville.....	S.O.	802	3,528.57	140,505	176	67	1.67	2.5
Merlin.....	S.O.	P.V.	2,403.79	92,641	124	62	1.62	2.6
Mildmay.....	S.O.	737	4,170.83	241,723	184	109	1.89	1.7
Millbrook.....	S.O.	734	4,647.63	128,295	182	58	2.09	3.6
Milton.....	S.O.	1,953	14,570.46	975,053	555	146	2.19	1.5
Milverton.....	S.O.	982	5,989.78	502,040	263	159	1.90	1.2
Mitchell.....	S.O.	1,588	13,518.50	986,868	521	158	2.16	1.4
Moorefield.....	S.O.	P.V.	1,164.65	41,280	56	61	1.73	2.8
Morrisburg.....	S.O.	1,528	10,270.08	603,707	444	114	1.93	1.7
St. Brydges.....	S.O.	P.V.	2,795.07	139,809	166	70	1.40	2.0
St. Forest.....	S.O.	1,787	10,192.92	503,500	502	84	1.69	2.0
Neustadt.....	S.O.	433	2,275.98	47,888	110	36	1.72	4.8
Newbury.....	S.O.	241	1,381.24	41,510	70	49	1.64	3.3

**"D"—Continued**

**In Ontario Municipalities Served by the Commission  
and for Power Service during the Year 1944**

**VILLAGES AND SUBURBAN AREAS**

Commercial Light service						Power service			Total number of consumers
Revenue	Consumption	Number of consumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.	Revenue	Number of consumers	Average monthly horse-power	
\$ c. 13,263.48	kw-hr. 624,267	121	430	9.13	2.1	\$ c. 14,571.31	16	567.3	792
6,577.15	368,413	117	262	4.68	1.8	18,190.51	16	918.1	539
5,324.41	270,669	104	217	4.27	2.0	6,454.90	13	277.4	495
5,434.38	226,121	83	227	5.46	2.4	4,528.09	9	218.3	442
2,326.70	79,214	49	135	3.96	2.9	196.58	3	15.2	290
2,082.07	61,905	52	99	3.34	3.4	1,895.05	2	72.8	349
2,284.18	75,670	54	117	3.52	3.0	2,945.27	14	149.0	278
816.53	27,820	31	75	2.19	2.9	1,325.93	5	67.2	143
424.40	15,450	11	117	3.22	2.7	306.11	2	20.2	76
3,742.80	169,508	67	211	4.66	2.2	1,732.49	6	70.5	352
2,128.64	99,367	41	202	4.33	2.1	3,595.89	2	138.5	206
5,551.89	284,290	80	296	5.77	1.9	3,797.97	6	157.8	479
918.79	22,372	18	104	4.25	4.1	.....	.....	.....	55
5,041.01	222,345	71	260	5.98	2.3	7,685.27	10	460.7	441
1,033.46	46,160	24	160	3.59	2.2	654.58	3	35.4	167
1,654.36	75,220	35	179	3.93	2.2	151.95	1	4.0	209
1,140.85	37,020	29	106	3.28	3.1	.....	.....	.....	145
1,171.21	47,628	14	284	6.97	2.5	165.57	2	10.2	275
1,895.47	119,794	16	624	9.87	1.6	1,846.65	5	85.0	515
2,214.67	89,849	49	153	3.77	2.5	1,392.68	6	75.3	241
5,164.77	168,410	88	159	4.89	3.1	11,957.79	9	330.8	384
826.58	29,622	17	145	4.05	2.8	781.42	2	45.0	124
3,654.39	154,855	88	147	3.46	2.4	1,678.44	5	79.8	411
3,251.06	157,460	71	185	3.82	2.1	2,498.53	9	133.3	311
2,799.50	130,273	62	175	3.76	2.1	3,213.26	9	167.1	421
2,131.53	91,973	36	213	4.95	2.3	255.59	1	20.2	286
1,143.74	38,911	25	130	3.81	2.9	.....	.....	.....	81
2,718.32	84,020	46	152	4.92	3.2	.....	.....	.....	222
2,017.07	83,575	55	127	3.06	2.4	777.51	3	31.7	182
2,828.24	106,635	57	156	4.13	2.7	1,112.48	2	32.3	243
1,899.06	36,104	60	50	2.60	5.2	1,549.82	4	47.3	246
7,385.62	419,998	106	330	5.81	1.8	27,608.42	14	1,160.9	675
4,136.60	204,120	77	221	4.48	2.0	4,199.30	10	258.0	350
6,311.77	341,898	132	216	3.98	1.8	6,966.69	24	351.0	677
1,663.92	68,169	32	178	4.33	2.4	80.49	1	3.0	89
5,836.10	235,230	112	175	4.34	2.5	3,492.58	16	102.9	572
958.59	41,011	39	88	2.15	2.3	922.17	5	50.9	210
7,632.55	358,370	135	221	4.71	2.1	7,203.69	16	363.3	653
1,184.28	34,527	24	120	4.11	3.4	611.50	2	18.0	136
455.19	11,131	18	52	2.11	4.1	175.89	1	12.8	89

## STATEMENT

Statistics Relating to the Supply of Electrical Energy to Consumers  
For Domestic Service, for Commercial Light Service

## Group III—SMALL TOWNS (less than 2,000 population),

Municipality	System	Population	Domestic service					
			Revenue	Consumption	Number of consumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.
Newcastle.....	S.O.	767	\$ 5,792.21	263,324	230	95	2.09	2.2
New Hamburg.....	S.O.	1,395	10,757.71	730,283	384	158	2.33	1.5
Niagara-on-the-Lake.....	S.O.	1,884	18,327.47	1,634,973	623	219	2.45	1.1
Nipigon Twp.....	T.B.	.....	5,307.18	302,408	243	103	1.80	1.7
North York Twp.....	S.O.	.....	247,930.37	15,604,895	7,019	185	2.94	1.6
Norwich.....	S.O.	1,184	9,765.08	703,720	391	150	2.08	1.4
Norwood.....	S.O.	694	5,466.21	237,500	242	82	1.88	2.3
Oil Springs.....	S.O.	445	1,962.89	113,953	104	91	1.57	1.7
Omemee.....	S.O.	464	3,461.76	151,157	173	73	1.67	2.3
Orono.....	S.O.	P.V.	4,731.10	161,893	183	73	2.12	2.9
Otterville.....	S.O.	P.V.	2,743.03	144,770	143	84	1.60	1.9
Paisley.....	S.O.	615	4,151.74	116,247	202	48	1.71	3.6
Palmerston.....	S.O.	1,342	11,483.77	875,735	400	182	2.39	1.3
Parkhill.....	S.O.	882	6,056.50	284,458	315	75	1.60	2.1
Plattsburgh.....	S.O.	P.V.	2,934.43	115,636	118	82	2.07	2.5
Point Edward.....	S.O.	1,221	7,452.98	347,795	349	83	1.78	2.1
Port Credit.....	S.O.	1,956	20,366.35	1,852,920	649	238	2.62	1.1
Port Dalhousie.....	S.O.	1,747	21,473.60	1,806,399	691	218	2.59	1.2
Port Dover.....	S.O.	1,818	11,774.57	686,329	750	76	1.31	1.7
Port Elgin.....	S.O.	1,329	12,595.87	641,870	509	105	2.06	2.0
Port McNicoll.....	S.O.	964	4,536.11	160,800	241	56	1.57	2.8
Port Perry.....	S.O.	1,216	9,542.38	415,175	381	91	2.09	2.3
Port Rowan.....	S.O.	622	3,350.51	128,950	171	63	1.63	2.6
Port Stanley.....	S.O.	919	17,531.68	1,174,015	825	118	1.77	1.5
Priceville.....	S.O.	P.V.	649.48	14,511	38	32	1.42	4.5
Princeton.....	S.O.	P.V.	2,960.46	166,668	98	142	2.52	1.8
Queenston.....	S.O.	P.V.	3,353.23	298,471	81	307	3.45	1.1
Richmond.....	S.O.	437	2,671.23	112,718	85	115	2.65	2.3
Richmond Hill.....	S.O.	1,423	11,567.43	1,022,525	414	206	2.33	1.1
Ridgetown.....	S.O.	1,854	9,506.01	608,220	599	85	1.32	1.6
Ripley.....	S.O.	361	3,516.55	85,821	129	55	2.27	4.1
Rockwood.....	S.O.	P.V.	4,377.39	244,280	174	117	2.10	1.8
Rodney.....	S.O.	722	3,470.29	169,336	239	59	1.21	2.0
Rosseau.....	S.O.	201	2,340.45	39,187	58	56	3.36	6.0
Russell.....	S.O.	P.V.	3,218.17	122,575	119	86	2.24	2.6
St. Clair Beach.....	S.O.	153	3,219.21	150,570	102	123	2.63	2.1
St. George.....	S.O.	P.V.	3,681.51	191,935	154	104	1.99	1.9
St. Jacobs.....	S.O.	P.V.	4,450.13	345,270	141	204	2.63	1.3
Scarborough Twp.....	S.O.	.....	138,392.01	9,532,779	5,950	133	1.94	1.5
Seaforth.....	S.O.	1,711	12,167.45	745,201	524	119	1.94	1.6
Shelburne.....	S.O.	1,044	5,940.46	262,110	314	70	1.58	2.3
Sioux Lookout.....	N.O.P.	1,734	18,529.74	436,982	488	75	3.16	4.2
Smithville.....	S.O.	P.V.	4,159.56	173,230	185	78	1.87	2.4
Southampton.....	S.O.	1,597	11,874.86	657,666	567	97	1.75	1.8
Springfield.....	S.O.	409	2,292.67	94,005	133	60	1.44	2.4

**"D"—Continued**

**in Ontario Municipalities Served by the Commission  
and for Power Service during the year 1944**

**VILLAGES AND SUBURBAN AREAS**

Commercial Light service						Power service			Total number of consumers
Revenue	Consumption	Number of consumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.	Revenue	Number of consumers	Average monthly horsepower	
\$ c.	kw-hr.		kw-hr.	\$ c.	cents	\$ c.			
2,084.61	83,390	29	239	5.97	2.5	2,075.14	7	76.0	266
4,659.26	221,134	101	182	3.84	2.1	7,899.74	12	372.0	497
7,034.21	447,589	103	362	5.69	1.6	6,430.35	11	288.3	737
4,085.88	231,695	54	357	6.28	1.7	1,076.38	5	70.1	302
32,926.16	1,360,670	341	333	8.05	2.4	187,802.49	55	6,349.0	7,415
4,309.38	282,539	95	248	3.78	1.5	2,074.21	9	130.3	495
2,434.57	89,530	58	129	3.50	2.8	1,394.97	4	64.3	304
1,321.09	60,682	34	149	3.24	2.2	5,707.93	33	170.4	171
926.61	31,687	29	91	2.64	2.9	3,325.36	5	145.0	207
2,036.99	59,412	39	126	4.28	3.4	165.84	2	7.8	224
1,961.66	85,868	45	159	3.63	2.3	684.45	5	42.4	193
2,334.73	71,283	50	119	3.89	3.3	921.80	3	30.2	255
4,801.00	240,640	95	211	4.21	2.0	8,855.92	13	545.3	508
3,369.83	124,598	81	128	3.47	2.7	1,935.51	7	67.7	403
2,156.56	90,661	21	359	8.56	2.4	2,243.06	2	73.8	141
2,910.17	113,723	47	202	5.16	2.6	43,525.09	11	1,684.0	407
6,970.46	441,944	83	444	7.00	1.6	6,306.65	11	254.4	743
4,832.90	349,882	69	423	5.84	1.4	7,376.10	12	415.4	772
5,599.57	328,854	116	236	4.02	1.7	6,523.78	15	297.2	881
6,113.06	256,894	110	195	4.63	2.4	4,012.95	7	218.5	626
715.26	22,370	17	110	3.51	3.2	.....	.....	.....	258
- 3,575.94	148,070	76	162	3.92	2.4	2,991.83	10	132.6	467
2,428.52	121,520	39	260	5.19	2.0	117.17	2	2.8	212
4,446.11	204,425	95	179	3.90	2.2	4,503.70	10	219.4	930
159.84	3,739	9	35	1.48	4.3	152.04	2	3.8	49
875.05	33,217	21	132	3.47	2.6	2,595.72	3	93.4	122
1,701.08	78,346	17	384	8.34	2.2	.....	.....	.....	98
1,268.29	40,595	22	153	4.74	3.1	.....	.....	.....	107
4,105.14	252,136	72	292	4.75	1.6	2,842.47	15	163.8	501
7,508.40	400,313	136	245	4.60	1.9	7,506.07	19	432.0	754
2,025.45	46,986	49	80	3.44	4.3	1,608.24	1	65.7	179
1,104.54	48,015	31	129	2.97	2.3	35.29	1	2.0	206
2,227.82	91,015	62	122	2.99	2.4	2,050.31	6	101.6	307
880.43	15,583	12	108	6.11	5.6	.....	.....	.....	70
1,453.91	45,622	30	126	4.03	3.2	.....	.....	.....	149
1,815.29	72,265	7	860	21.61	2.5	228.91	1	10.0	110
1,413.44	73,294	31	197	3.80	1.9	3,140.04	2	116.9	187
1,927.20	96,800	31	260	5.18	2.0	5,274.54	9	261.0	181
24,096.60	1,400,557	385	303	5.21	1.7	40,986.23	39	1,667.4	6,374
7,861.55	415,373	109	317	6.01	1.9	14,369.91	23	699.0	656
3,677.94	162,380	69	196	4.44	2.3	3,277.22	13	194.9	396
12,230.78	235,682	87	226	11.71	5.2	1,405.98	2	32.5	577
2,874.01	172,182	53	271	4.52	1.7	2,647.87	5	135.1	243
5,821.07	280,888	89	263	5.45	2.1	9,104.27	12	357.5	668
755.59	16,900	22	64	2.86	4.5	883.59	3	40.5	158

## STATEMENT

Statistics Relating to the Supply of Electrical Energy to Consumers  
For Domestic Service, for Commercial Light Service

## Group III—SMALL TOWNS (less than 2,000 population),

Municipality	System	Population	Domestic service					
			Revenue	Consumption	Number of consumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.
Stamford Twp.....	S.O.	79,218.97	\$ 7,209,762	2,497	kw-hr. 241	\$ 2.64	cents 1.1	
Stayner.....	S.O.	6,070.89	319,700	341	78	1.48	1.9	
Stirling.....	S.O.	6,501.59	462,107	293	132	1.85	1.4	
Stouffville.....	S.O.	8,280.58	505,435	408	103	1.69	1.6	
Streetsville.....	S.O.	5,771.38	363,485	208	146	2.31	1.6	
Sunderland.....	S.O.	P.V. 3,106.89	117,030	140	70	1.85	2.7	
Sutton.....	S.O.	8,445.65	389,600	468	69	1.50	2.2	
Tara.....	S.O.	478	3,103.17	127,971	164	65	1.58	2.4
Tavistock.....	S.O.	1,042	9,005.61	685,825	300	191	2.50	1.3
Teeswater.....	S.O.	826	4,862.78	186,918	233	67	1.74	2.6
Thamesford.....	S.O.	P.V. 4,044.59	312,650	147	177	2.29	1.3	
Thamesville.....	S.O.	3,752.44	238,776	243	82	1.29	1.6	
Thedford.....	S.O.	557	3,409.88	114,339	166	57	1.71	3.0
Thorndale.....	S.O.	P.V. 1,845.41	73,260	83	74	1.85	2.5	
Thornton.....	S.O.	P.V. 1,403.67	38,290	67	48	1.75	3.7	
Tilbury.....	S.O.	1,982	7,730.13	498,970	502	83	1.28	1.5
Toronto Twp.....	S.O.	95,025.70	7,084,198	3,065	193	2.58	1.3	
Tottenham.....	S.O.	482	3,641.64	129,625	161	67	1.88	2.8
Trafalgar Twp. No. 1.....	S.O.	17,517.96	819,940	403	169	3.62	2.1	
Trafalgar Twp. No. 2.....	S.O.	5,936.36	328,296	170	162	2.91	1.8	
Tweed.....	S.O.	1,250	6,851.18	316,536	321	82	1.78	2.2
Uxbridge.....	S.O.	1,425	10,091.82	519,270	423	102	1.99	1.9
Victoria Harbour.....	S.O.	937	3,878.16	138,830	271	43	1.19	2.8
Wardsville.....	S.O.	227	1,658.93	54,021	65	69	2.13	3.1
Warkworth.....	S.O.	P.V. 2,319.06	79,546	135	49	1.43	2.9	
Waterdown.....	S.O.	898	6,449.72	454,570	280	135	1.92	1.4
Waterford.....	S.O.	1,300	7,573.66	482,950	397	101	1.59	1.6
Watford.....	S.O.	1,038	8,399.74	485,700	312	130	2.24	1.7
Waubaushene.....	S.O.	P.V. 3,501.31	146,376	235	52	1.24	2.4	
Wellesley.....	S.O.	P.V. 2,661.27	123,810	137	75	1.62	2.1	
Wellington.....	S.O.	1,076	6,945.41	362,908	343	87	1.69	1.9
West Lorne.....	S.O.	785	3,811.12	205,983	227	76	1.40	1.9
Westport.....	S.O.	636	4,046.96	126,485	149	71	2.26	3.2
Wheatley.....	S.O.	718	3,867.29	181,780	237	64	1.36	2.1
Wiarton.....	S.O.	1,558	7,942.52	334,560	437	64	1.51	2.4
Williamsburg.....	S.O.	P.V. 1,643.64	144,070	86	140	1.59	1.1	
Winchester.....	S.O.	1,029	7,387.30	518,349	309	138	1.99	1.4
Windermere.....	S.O.	118	2,781.64	50,085	64	65	3.62	5.6
Woodbridge.....	S.O.	1,019	8,879.63	618,991	314	164	2.36	1.4
Woodville.....	S.O.	415	2,263.06	95,496	116	69	1.63	2.4
Wyoming.....	S.O.	494	2,840.19	137,847	166	69	1.43	2.1
York Twp.....	S.O.	524,955.55	37,022,508	21,946	140	1.97	1.4	
Zurich.....	S.O.	P.V. 3,659.11	177,234	149	99	2.05	2.1	

**"D"—Concluded**

**in Ontario Municipalities Served by the Commission  
and for Power Service during the year 1944**

**VILLAGES AND SUBURBAN AREAS**

Commercial Light service						Power service			Total number of consumers
Revenue	Consumption	Number of consumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.	Revenue	Number of consumers	Average monthly horsepower	
\$ 12,914.30	c. 828,309	154	kw-hr. 448	\$ c. 6.99	1.6	\$ 17,875.70	19	1,120.1	2,670
3,642.11	173,600	87	166	3.49	2.1	3,023.28	15	203.4	443
3,474.20	152,074	69	184	4.19	2.3	1,554.27	9	78.8	371
4,178.85	209,360	84	208	4.15	2.0	1,328.44	6	75.3	498
2,102.78	82,001	49	139	3.58	2.6	3,915.09	6	159.0	263
1,310.97	39,863	36	92	3.03	3.3	390.37	2	13.0	178
3,224.70	143,560	80	150	3.36	2.2	1,179.36	4	41.0	552
1,522.81	56,693	36	131	3.53	2.7	1,769.16	5	56.8	205
4,422.67	202,528	96	176	3.84	2.2	9,871.68	9	416.6	405
2,908.92	88,820	56	132	4.33	3.3	2,089.36	4	106.8	293
1,283.45	73,523	39	157	2.74	1.7	1,969.54	6	95.3	192
2,851.92	151,439	68	186	3.49	1.9	1,956.79	6	90.6	317
2,639.73	74,186	53	117	4.15	3.6	2,249.94	2	64.7	221
725.55	22,870	21	91	2.88	3.2	1,099.83	2	38.8	106
358.18	11,547	11	87	2.71	3.1	336.77	2	15.9	80
6,457.54	384,850	120	267	4.48	1.7	35,262.73	15	1,562.5	637
22,273.63	1,605,846	187	715	9.93	1.4	8,607.14	43	428.0	3,295
1,282.65	32,411	39	69	2.74	4.0	1,785.32	8	62.7	208
841.08	29,690	6	412	11.68	2.8	1,473.17	9	71.0	418
828.02	35,261	20	147	3.45	2.3	189.79	2	11.0	192
4,351.24	145,485	79	153	4.59	3.0	4,632.91	14	175.5	414
3,982.38	139,100	97	120	3.42	2.9	1,974.65	11	29.4	531
936.29	44,416	28	132	2.79	2.1	102.00	1	3.0	300
799.14	26,347	17	129	3.92	3.0	48.06	1	3.0	83
1,315.57	49,227	39	105	2.81	2.7	85.32	1	9.3	175
1,627.85	120,880	33	305	4.11	1.4	1,394.11	7	64.5	320
3,634.84	225,932	78	241	3.88	1.6	5,254.05	14	329.8	489
3,985.69	161,960	78	173	4.26	2.5	5,863.93	8	204.9	398
746.18	36,030	22	136	2.83	2.1	260.74	2	8.7	259
1,434.77	52,849	44	100	2.72	2.7	1,088.52	4	49.8	185
3,290.44	140,410	69	170	3.97	2.3	2,196.45	9	86.4	421
3,421.53	194,440	54	300	5.28	1.8	4,661.71	8	240.3	289
2,655.03	82,070	49	140	4.52	3.2	.....	.....	.....	198
3,465.08	145,988	73	167	3.96	2.4	3,063.72	6	137.0	316
7,439.23	308,980	106	243	5.85	2.4	3,896.43	17	123.0	560
1,747.18	93,450	32	241	4.55	1.9	143.18	1	10.7	119
4,162.99	211,839	86	205	4.03	2.0	2,176.81	3	100.1	398
1,129.41	30,791	13	197	7.24	3.7	185.47	1	7.5	78
1,928.44	92,984	48	161	3.35	2.1	10,849.82	7	530.7	369
836.46	26,955	20	112	3.49	3.1	675.75	2	41.3	138
1,398.60	46,543	43	90	2.71	3.0	191.02	2	16.0	211
73,823.15	4,460,725	937	396	6.53	1.6	216,048.93	189	10,006.3	23,072
3,372.12	115,794	46	210	6.11	2.9	.....	.....	.....	195

## STATEMENT "E"

**Cost of Power to Municipalities and Rates to Consumers for  
Domestic Service—Commercial Light Service—Power Service  
in Ontario Urban Municipalities Served by  
The Hydro-Electric Power Commission  
for the year 1944**

In Statement "E" are presented the rate schedules applicable to consumers for domestic service, for commercial light service and for power service in each of the co-operating municipalities receiving service at cost through The Hydro-Electric Power Commission.\* The cost per horsepower of the power supplied at wholesale by the Commission to the municipality, an important factor in determining rates to consumers, is also stated.

### **Cost of Power to Municipalities**

The figures in the first column represent the total cost for the year of the power supplied by the Commission to the municipality, divided by the number of horsepower supplied. Details respecting these costs are given in the "Cost of Power" tables relating to the systems, as presented in Section IX, and an explanation of the items making up the cost of power is given in the introduction to that Section.

### **Rates to Consumers**

The Power Commission Act stipulates that "The rates chargeable by any municipal corporation generating or receiving and distributing electrical power or energy shall at all times be subject to the approval and control of the Commission,"†. In accordance with the Act and in pursuance of its fundamental principle of providing service at cost, the Commission requires that accurate cost records be kept in each municipality, and exercises a continuous supervision over the rates charged to consumers.

At the commencement of its operations, the Commission introduced scientifically-designed rate schedules for each of the three main classes into which electrical service is usually divided, namely: residential or domestic service, commercial light service, and power service, and the schedules in use during the past year are presented in the tables of this statement.

\*Except townships served as parts of rural power districts, for which consult Section IV.  
†R.S.O. 1937, Ch. 62, Sec. 89.

*Domestic Service:* Domestic rates apply to electrical service in residences, for all household purposes, including lighting, cooking and the operation of all domestic appliances.

During the past few years most of the urban municipal utilities have further simplified the domestic-rate structure by abolishing the service charge, and making a suitable adjustment in the first consumption rate. Where the service charge is retained at 33 and 66 cents gross per month the charge of 33 cents per month per service is made when the permanently installed appliance load is under 2,000 watts, and the charge of 66 cents per month when 2,000 watts or more.

*Commercial Light Service:* Electrical energy used in stores, offices, churches, schools, public halls and institutions, hotels, public boarding-houses, and in all other premises for commercial purposes, including sign and display lighting, is billed at commercial lighting rates.

*Water-Heater Service:* For all consumers using continuous electric water heaters, low flat rates are available consisting of a fixed charge per month dependent on the capacity of the heating element and the cost of power to the municipal utility. Such heaters are so connected that the electrical energy they consume is not metered. For new installations the necessary equipment, including heater, thermostat, efficient insulation for water-storage tank, and wiring, is installed by a large number of municipal Hydro utilities, without capital cost to the consumer.† The installation of new water-heating services is suspended for the duration of the war.

*Power Service:* The rate schedules given for power service in Statement "E" are those governing the supply of power at retail by each of the local municipal utilities. The Commission serves direct, certain large power consumers under special contracts, on behalf of the systems of municipalities.

The rates for power service, as given in the tables, are the rates for 24-hour unrestricted power at secondary distribution voltage. For service at primary distribution voltage the rates are usually five per cent lower than those stated. In municipalities where load conditions and other circumstances permit, lower rates are available for "restricted power", discounts additional to those listed in the table being applicable.

The service charge relates to the connected load or to the maximum demand, as measured by a 10-minute average peak, where a demand meter is installed. The prompt payment discount of 10 per cent on the total monthly bill is given for settlement within 10 days.

Under the tabulation of rates for power service there is a column headed "Basis of rate 130 hours' monthly use of demand." This column shows approximately the net annual amount payable for a demand of one horse-power, assuming a monthly use of 130 hours, which includes 30 hours' use each month at the third energy rate. Broadly, the figures in this column serve to indicate approximately the relative cost of power service in the different municipalities listed.

†In addition, the municipal Hydro utilities supply booster water-heating equipment to furnish extra requirements beyond the capacity of the continuous heater; current for the booster heater is measured and charged for at the regular rates.

## STATEMENT

Cost of Power to Municipalities and Rates to Consumers for  
for the Year 1944, in Urban Municipalities

Municipality  C—City T—Town (pop. 2,000 or more)	Annual cost to the Commission on the works to serve electrical energy to municipa- lity on a horse- power basis	Domestic service					
		Service charge per month*	First rate		All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount
			Number of kw-hrs. per month	Per kw-hr. per month			
Acton.....	\$ 24.58	cents	60	cents	cents	\$ 0.83	% 10
Agincourt.....	24.69		60	3.0	1.0	0.83	10
Ailsa Craig.....	33.47		60	2.8	0.9	0.83	10
Alexandria.....T	39.00		60	3.5	1.0	1.11	10
Alliston.....T	32.84		50	4.4	1.1	1.11	10
Alvinston.....	39.00		60	3.8	1.1	1.11	10
Amherstburg.....T	26.52		60	3.0	0.9	0.83	10
Ancaster Twp.....	23.28		60	3.5	1.2	0.83	10
Apple Hill.....	33.70		60	4.5	1.0	1.39	10
Arkona.....	39.00		60	4.5	1.2	1.39	10
Arnprior.....T	20.96		60	3.2	1.0	0.83	10
Arthur.....	39.00		40	5.0	1.5	1.39	10
Athens.....	38.36	33-66	50	4.5	1.5	1.11	10
Aurora.....T	23.91		60	2.6	1.0	0.83	10
Aylmer.....T	26.18		60	2.3	0.8	0.83	10
Ayr.....	28.13		60	3.4	1.1	1.11	10
Baden.....	24.20		60	2.5	1.0	0.83	10
Bala.....T	33-66		50	3.7	1.2	1.66	10
Barrie.....T	22.88		60	2.7	1.0	0.83	10
Bath.....	39.00	33-66	50	5.0	1.5	2.22	10
Beachville.....	24.62		60	3.0	1.0	0.83	10
Beamsville.....	21.91		60	3.0	1.0	0.83	10
Beardmore Townsite.....			50	5.5	1.5	1.11	10
Beaverton.....	30.55		60	2.8	1.0	1.11	10
Beeton.....	39.00		45	4.5	1.2	1.39	10
Belle River.....	28.95		60	3.2	1.0	1.11	10
Belleville.....C	19.60		55	1.9	0.7	0.83	10
Blenheim.....T	27.73		60	2.5	0.9	0.83	10
Bloomfield.....	34.79		55	3.2	1.1	0.83	10
Blyth.....	36.45		60	3.2	1.1	1.39	10
Bolton.....	29.89		55	3.3	1.0	1.11	10
Bothwell.....T	32.28		60	2.4	0.8	0.83	10
Bowmanville.....T	23.80		60	3.2	1.0	0.83	10
Bradford.....	35.34		40	4.8	1.2	1.67	10
Brampton.....T	22.82		60	2.3	1.0	0.83	10
Brantford.....C	21.45		60	2.2	0.9	0.83	10
Brantford Twp.....	24.88		60	2.7	1.0	1.11	10
Brechin.....	34.89		45	5.5	1.2	1.67	10
Bridgeport.....	26.78		50	4.0	1.1	1.11	10
Brigden.....	35.83		60	3.4	0.9	1.39	10

\*Where domestic service charge has not been abolished the charge is 33c per month per service when the permanently installed appliance load is under 2,000 watts and 66c per month when 2,000 watts or more.

**"E"**
**Domestic Service—Commercial Light Service—Power Service  
Served by The Hydro-Electric Power Commission**

Commercial Light service					Power service								
Service charge per 100 watts min. 1,000 watts	First 100 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount	Basis of rate 130 hours' monthly use of demand	Service charge per h.p. per month	First 50 hrs. per month per kw-hr.	Second 50 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum per h.p. per month	Local discount	Prompt payment discount	
cents 5.0	cents 1.8	cents 0.5	\$ c. 0.83	% 10	\$ c. 20.00	\$ c. 1.00	cents 1.6	cents 1.0	cents 0.33	.....	% 10	% 10	
5.0	2.6	0.6	0.83	10	20.00	1.00	1.6	1.0	0.33	.....	10	10	
5.0	2.2	0.6	0.83	10	24.00	1.00	2.3	1.5	0.33	.....	10	10	
5.0	3.0	0.8	1.11	10	38.00	1.00	4.0	2.6	0.33	.....	.....	10	
5.0	3.9	1.0	1.11	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10	
5.0	3.3	1.0	1.11	10	40.00	1.00	4.3	2.8	0.33	.....	.....	10	
5.0	2.5	0.6	0.83	10	22.00	1.00	1.9	1.3	0.33	.....	10	10	
5.0	3.0	0.7	0.83	10	24.00	1.00	2.3	1.5	0.33	.....	10	10	
5.0	4.0	1.0	1.39	10	35.00	1.00	3.5	2.3	0.33	.....	.....	10	
5.0	4.0	1.0	1.39	10	45.00	1.00	4.9	3.3	0.33	.....	.....	10	
5.0	3.0	0.8	0.83	10	18.00	1.00	1.9	1.2	0.33	.....	25	10	
5.0	4.5	1.0	1.39	10	40.00	1.00	4.3	2.8	0.33	.....	.....	10	
5.0	4.5	1.0	1.10	10	42.00	1.00	4.6	3.0	0.33	.....	.....	10	
5.0	1.6	0.4	1.11	10	20.00	1.00	1.6	1.0	0.33	.....	10	10	
5.0	1.9	0.5	0.83	10	20.00	1.00	1.6	1.0	0.33	.....	10	10	
5.0	2.5	0.7	1.11	10	32.00	1.00	3.1	2.0	0.33	.....	.....	10	
5.0	2.2	0.7	0.83	10	20.00	1.00	1.6	1.0	0.33	.....	10	10	
5.0	3.7	0.8	1.66	10	20.00	1.00	1.6	1.0	0.33	.....	10	10	
5.0	2.1	0.8	0.83	10	18.00	1.00	1.9	1.2	0.33	.....	25	10	
5.0	5.0	1.0	2.22	10	35.00	1.00	3.5	2.3	0.33	.....	.....	10	
5.0	.2.6	0.6	0.83	10	20.00	1.00	1.6	1.0	0.33	.....	10	10	
5.0	2.7	0.6	0.83	10	21.00	1.00	1.8	1.1	0.33	.....	10	10	
5.0	5.5	1.5	2.22	10	40.00	1.00	4.3	2.8	0.33	.....	.....	10	
5.0	2.0	0.8	1.11	10	24.00	1.00	2.3	1.5	0.33	.....	10	10	
5.0	4.0	1.0	1.39	10	35.00	1.00	3.5	2.3	0.33	.....	.....	10	
5.0	2.7	0.6	1.11	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10	
4.5	1.6	0.35	0.83	10	15.00	1.00	1.3	0.8	0.33	.....	25	10	
5.0	2.0	0.6	0.83	10	24.00	1.00	2.3	1.5	0.33	.....	10	10	
5.0	2.8	0.9	0.83	10	35.00	1.00	3.5	2.3	0.33	.....	.....	10	
5.0	3.0	0.8	1.39	10	35.00	1.00	3.5	2.3	0.33	.....	.....	10	
5.0	2.8	0.8	1.11	10	23.00	1.00	2.1	1.4	0.33	.....	10	10	
5.0	2.0	0.5	0.83	10	25.00	1.00	2.0	1.3	0.33	.....	.....	10	
5.0	2.6	0.7	0.83	10	22.00	1.00	1.9	1.3	0.33	.....	10	10	
5.0	4.3	1.0	1.67	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10	
5.0	1.8	0.6	0.83	10	17.00	1.00	1.7	1.1	0.33	.....	25	10	
*5.0	1.6	0.35	0.83	10	16.00	1.00	1.5	0.9	0.33	.....	25	10	
5.0	2.2	0.5	1.11	10	21.00	1.00	1.8	1.1	0.33	.....	10	10	
5.0	4.8	0.8	1.67	10	34.00	1.00	3.4	2.2	0.33	.....	.....	10	
5.0	3.5	0.7	1.11	10	25.00	1.00	2.0	1.3	0.33	.....	.....	10	
5.0	2.8	0.8	1.39	10	38.00	1.00	4.0	2.6	0.33	.....	.....	10	

\*Minimum 500 watts.

## STATEMENT

**Cost of Power to Municipalities and Rates to Consumers for  
for the Year 1944, in Urban Municipalities**

Municipality  C—City T—Town (pop. 2,000 or more)	Annual cost to the Commission on the works to serve electrical energy to municipality on a horsepower basis	Domestic service					
		Service charge per month	First rate		All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount
			Number of kw-hrs. per month	Per kw-hr. per month			
Brighton.....	\$ 25.36	cents	60	cents	cents	\$ 0.83	10
Brockville.....T	22.21		60	1.8	0.8	0.83	10
Brussels.....	35.74		55	3.4	1.1	1.39	10
Burford.....	25.14		60	2.5	0.9	0.83	10
Burgessville.....	36.54		60	4.5	1.2	1.39	10
Burlington Beach or Hamilton Beach.....			60	3.5	1.1	0.83	10
Caledonia.....	25.14		60	2.5	0.8	0.83	10
Callander.....		33	40	5.0	2.0	1.11	10
Campbellville.....	39.00		55	3.8	1.1	1.11	10
Cannington.....	29.99		55	3.6	1.5	1.11	10
Capreol.....T			50	3.8	1.0	1.39	10
Cardinal.....	23.56		55	2.5	1.1	1.11	10
Carleton Place.....T	22.65		55	2.8	1.0	0.83	10
Cayuga.....	37.98		60	3.6	1.1	1.39	10
Chatham.....C	23.26		60	2.8	0.8	0.83	10
Chatsworth.....	32.54		45	3.5	1.2	1.39	10
Chesley.....T	26.58		55	2.9	1.1	1.11	10
Chesterville.....	27.00		55	2.3	1.0	0.83	10
Chippawa.....	18.50		60	2.4	0.9	1.11	10
Clifford.....	39.00		55	3.5	1.2	1.39	10
Clinton.....T	27.31		60	2.6	1.0	0.83	10
Cobden.....	39.00		30	3.5	1.0	1.11	10
Cobourg.....T	23.70		55	3.4	1.1	0.83	10
Colborne.....	26.70		60	4.0	1.1	0.83	10
Coldwater.....	28.33	33-66	55	2.5	1.0	1.11	10
Collingwood.....T	23.78		55	2.8	1.0	0.83	10
Comber.....	34.71		60	3.2	0.9	1.11	10
Cookstown.....	30.88		45	4.5	1.0	1.39	10
Cottage Cove Townsite.....			60	6.0	2.0	3.33	10
Cottam.....	32.86		60	3.2	1.0	1.11	10
Courtright.....	39.00		60	3.0	1.1	1.11	10
Creemore.....	33.79		45	3.8	1.0	1.39	10
Dashwood.....	31.77		60	3.8	1.0	1.11	10
Delaware.....	26.19		60	3.5	1.2	1.11	10
Delhi.....	26.86		60	3.3	1.0	0.83	10
Deseronto.....T	28.74		55	4.2	1.0	0.83	10
Dorchester.....	28.32		60	3.0	1.1	0.83	10
Drayton.....	39.00		55	4.0	1.3	1.11	10
Dresden.....T	27.97		60	2.6	0.8	0.83	10
Drumbo.....	27.82		60	3.8	1.1	1.11	10

**"E"—Continued**
**Domestic Service—Commercial Light Service—Power Service  
Served by The Hydro-Electric Power Commission**

Commercial Light service					Power service								
Service charge per 100 watts min. 1,000 watts	First 100 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount	Basis of rate, 130 hours' monthly use of demand	Service charge per h.p. per month	First 50 hrs. per month per kw-hr.	Second 50 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum per h.p. per month	Local discount	Prompt payment discount	
cents	cents	cents	\$ . c.	%	\$ . c.	\$ . c.	cents	cents	cents	\$ . c.	%	%	
5.0	3.4	0.8	0.83	10	24.00	1.00	2.3	1.5	0.33	.....	10	10	
4.5	1.6	0.4	0.83	10	16.00	1.00	1.5	0.9	0.33	.....	25	10	
5.0	3.3	1.0	1.39	10	32.00	1.00	3.1	2.0	0.33	.....	.....	10	
5.0	2.0	0.6	0.83	10	20.00	1.00	1.6	1.0	0.33	.....	10	10	
5.0	4.0	1.0	1.39	10	32.00	1.00	3.1	2.0	0.33	.....	.....	10	
5.0	3.2	0.7	0.83	10	27.00	1.00	2.3	1.5	0.33	.....	.....	10	
5.0	2.0	0.5	0.83	10	20.00	1.00	1.6	1.0	0.33	.....	10	10	
5.0	5.0	1.0	1.11	10	40.00	1.00	4.3	2.8	0.33	.....	.....	10	
5.0	3.5	1.0	1.11	10	40.00	1.00	4.3	2.8	0.33	.....	.....	10	
5.0	2.8	1.0	1.11	10	28.00	1.00	2.5	1.6	0.33	.....	.....	10	
5.0	3.5	0.8	1.39	10	31.00	1.00	2.9	1.9	0.33	.....	.....	10	
5.0	2.3	1.0	1.11	10	25.00	1.00	2.0	1.3	0.33	.....	.....	10	
5.0	2.2	0.8	0.83	10	18.00	1.00	1.9	1.2	0.33	.....	25	10	
5.0	3.2	0.8	1.39	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10	
5.0	2.2	0.6	0.83	10	20.00	1.00	1.6	1.0	0.33	.....	10	10	
5.0	3.0	1.0	1.39	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10	
5.0	2.4	0.8	1.11	10	22.00	1.00	1.9	1.3	0.33	.....	10	10	
5.0	2.3	1.0	0.83	10	24.00	1.00	2.3	1.5	0.33	.....	10	10	
5.0	2.0	0.6	1.11	10	20.00	1.00	1.6	1.0	0.33	.....	10	10	
5.0	3.5	1.0	1.39	10	36.00	1.00	3.7	2.4	0.33	.....	.....	10	
5.0	2.2	0.7	0.83	10	24.00	1.00	2.3	1.5	0.33	.....	10	10	
5.0	3.5	1.0	1.11	10	35.00	1.00	3.5	2.3	0.33	.....	.....	10	
5.0	2.7	0.9	0.83	10	20.00	1.00	1.6	1.0	0.33	.....	10	10	
5.0	3.0	1.0	0.83	10	32.00	1.00	3.1	2.0	0.33	.....	.....	10	
5.0	2.5	1.0	1.11	10	28.00	1.00	2.5	1.6	0.33	.....	.....	10	
5.0	2.3	0.8	0.83	10	18.00	1.00	1.9	1.2	0.33	.....	25	10	
5.0	2.8	0.7	1.11	10	27.00	1.00	2.3	1.5	0.33	.....	.....	10	
5.0	4.0	1.0	1.39	10	32.00	1.00	3.1	2.0	0.33	.....	.....	10	
5.0	5.0	2.0	4.44	10	40.00	1.00	4.3	2.8	0.33	.....	.....	10	
5.0	2.8	0.8	1.11	10	28.00	1.00	2.5	1.6	0.33	.....	.....	10	
5.0	3.2	1.0	1.11	10	40.00	1.00	4.3	2.8	0.33	.....	.....	10	
5.0	3.0	0.9	1.39	10	26.00	1.00	2.2	1.4	0.33	.....	.....	10	
5.0	3.4	0.9	1.11	10	32.00	1.00	3.1	2.0	0.33	.....	.....	10	
5.0	3.0	1.0	1.11	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10	
5.0	2.6	0.9	0.83	10	28.00	1.00	2.5	1.6	0.33	.....	.....	10	
5.0	3.8	1.0	0.83	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10	
5.0	2.2	1.0	0.83	10	27.00	1.00	2.3	1.5	0.33	.....	.....	10	
5.0	3.4	0.7	1.11	10	32.00	1.00	3.1	2.0	0.33	.....	.....	10	
5.0	2.0	0.6	0.83	10	24.00	1.00	2.3	1.5	0.33	.....	10	10	
5.0	3.0	0.8	1.11	10	28.00	1.00	2.5	1.6	0.33	.....	10	10	

## STATEMENT

Cost of Power to Municipalities and Rates to Consumers for  
for the Year 1944, in Urban Municipalities

Municipality  C—City T—Town (pop. 2,000 or more)	Annual cost to the Commission on the works to serve electrical energy to municipi- lity on a horse- power basis	Domestic service					
		Service charge per month	First rate		All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount
			Number of kw-hrs. per month	Per kw-hr. per month			
Dublin.....	\$ 39.00	cents	60	cents	cents	\$ 1.11	10
Dundalk.....	27.79	.....	55	3.0	1.0	1.11	10
Dundas..... T	20.83	.....	60	2.5	0.9	0.83	10
Dunnville..... T	23.53	.....	60	2.4	0.8	0.83	10
Durham..... T	28.04	.....	55	2.5	1.0	0.83	10
Dutton.....	28.80	.....	60	2.1	0.8	0.83	10
East York Twp.....	21.17	.....	60	2.5	1.1	0.83	10
Elmira..... T	23.98	.....	60	3.0	1.0	0.83	10
Elmvale.....	29.66	.....	60	3.2	1.1	0.83	10
Elmwood.....	37.43	.....	45	4.0	1.0	1.39	10
Elora.....	26.97	.....	60	3.0	1.1	1.11	10
Embro.....	28.09	.....	60	3.4	1.2	1.11	10
Eriau.....	36.36	.....	60	3.8	1.1	1.39	10
Erie Beach.....	39.00	.....	60	4.5	1.2	1.39	10
Essex..... T	26.12	.....	60	2.5	0.9	0.83	10
Etobicoke Twp.....	22.23	.....	60	2.7	1.1	0.83	10
Exeter.....	27.74	.....	60	2.8	0.9	0.83	10
Fergus.....	25.64	.....	55	3.0	1.1	1.11	10
Finch.....	34.22	.....	45	3.0	1.2	1.39	10
Flesherton.....	34.36	.....	55	3.0	1.0	1.11	10
Fonthill.....	24.55	.....	60	3.0	1.1	1.11	10
Forest..... T	31.31	.....	60	3.2	0.9	1.11	10
Forest Hill.....	20.80	.....	60	2.7	1.2	0.83	10
Fort William..... C	18.75	.....	60	2.0	0.8	0.83	10
Frankford.....	.....	.....	60	4.5	1.2	0.83	10
Galt..... C	21.89	.....	60	2.8	0.8	0.83	10
Gamebridge.....	.....	.....	45	5.5	1.2	1.67	10
Georgetown..... T	26.18	.....	60	2.5	0.9	0.83	10
Geraldton Townsite.....	.....	.....	60	3.7	1.2	1.11	10
Glencoe.....	39.00	.....	60	3.3	0.9	1.11	10
Glen Williams.....	.....	.....	60	2.9	1.0	0.83	10
Goderich..... T	29.54	.....	60	2.8	1.0	0.83	10
Grand Valley.....	37.39	.....	50	3.4	1.0	1.11	10
Granton.....	34.69	.....	60	3.3	1.2	1.11	10
Gravenhurst..... T	22.70	.....	55	2.2	0.9	0.83	10
Grimsby..... T	23.95	.....	60	3.5	1.1	0.83	10
Guelph..... C	21.90	.....	60	2.0	0.8	0.83	10
Hagersville.....	27.21	.....	60	2.5	1.0	0.83	10
Hamilton..... C	20.22	.....	60	2.4	0.8	0.83	10
Hanover..... T	23.02	.....	60	2.7	1.1	0.83	10

## “E”—Continued

**Domestic Service—Commercial Light Service—Power Service  
Served by The Hydro-Electric Power Commission**

Commercial Light service					Power service							
Service charge per 100 watts min. 1,000 watts	First 100 hrs. per month per kw-hr.	All additional per kw-hr.	Minim-um gross monthly bill	Prompt pay-ment discount	Basis of rate 130 hours' monthly use of demand	Service charge per h.p. per month	First 50 hrs. per month per kw-hr.	Second 50 hrs. per month per kw-hr.	All addi-tional per kw-hr.	Minim-um per h.p. per month	Local dis-count	Prompt pay-ment discount
cents	cents	cents	\$ c.	%	\$ c.	\$ c.	cents	cents	cents	\$ c.	%	%
5.0	3.0	0.8	1.11	10	34.00	1.00	3.4	2.2	0.33	.....	.....	10
5.0	2.5	0.8	1.11	10	23.00	1.00	2.1	1.4	0.33	.....	10	10
5.0	1.9	0.5	0.83	10	16.00	1.00	1.5	0.9	0.33	.....	25	10
5.0	2.0	0.6	0.83	10	17.00	1.00	1.7	1.1	0.33	.....	25	10
5.0	2.1	0.8	0.83	10	24.00	1.00	2.3	1.5	0.33	.....	10	10
5.0	1.8	0.4	0.83	10	18.00	1.00	1.9	1.2	0.33	.....	25	10
5.0	2.0	0.6	0.83	10	20.00	1.00	1.6	1.0	0.33	.....	10	10
5.0	2.6	0.7	0.83	10	22.00	1.00	1.9	1.3	0.33	.....	10	10
5.0	2.4	1.0	0.83	10	27.00	1.00	2.3	1.5	0.33	.....	.....	10
5.0	3.2	0.8	1.39	10	33.00	1.00	3.2	2.1	0.33	.....	.....	10
5.0	2.7	0.7	1.11	10	21.00	1.00	1.8	1.1	0.33	.....	10	10
5.0	2.8	0.8	1.11	10	35.00	1.00	3.5	2.3	0.33	.....	.....	10
5.0	3.6	1.0	1.39	10	40.00	1.00	4.3	2.8	0.33	2.22	.....	10
5.0	4.0	1.0	1.39	10	45.00	1.00	4.9	3.3	0.33	.....	.....	10
5.0	2.0	0.6	0.83	10	19.00	1.00	2.0	1.4	0.33	.....	25	10
5.0	2.0	0.6	0.83	10	20.00	1.00	1.6	1.0	0.33	.....	10	10
5.0	2.2	0.5	0.83	10	20.00	1.00	1.6	1.0	0.33	.....	10	10
5.0	2.4	0.6	1.11	10	21.00	1.00	1.8	1.1	0.33	.....	10	10
5.0	2.8	1.0	1.39	10	35.00	1.00	3.5	2.3	0.33	.....	.....	10
5.0	2.5	0.8	1.11	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
5.0	2.6	0.6	1.11	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
5.0	2.8	0.6	1.11	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
5.0	2.0	0.6	0.83	10	21.00	1.00	1.8	1.1	0.33	*0.33	.....	10
5.0	1.8	0.3	0.83	10	17.00	1.00	1.7	1.1	0.133	.....	25	10
5.0	3.5	1.0	0.83	10	20.00	1.00	1.6	1.0	0.33	.....	10	10
5.0	2.3	0.4	0.83	10	18.00	1.00	1.9	1.2	0.33	.....	25	10
5.0	4.8	0.8	1.67	10	34.00	1.00	3.4	2.2	0.33	.....	.....	10
5.0	2.0	0.5	0.83	10	18.00	1.00	1.9	1.2	0.33	.....	25	10
5.0	3.5	1.0	1.66	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
5.0	2.6	0.8	1.11	10	32.00	1.00	3.1	2.0	0.33	.....	.....	10
5.0	2.3	0.6	0.83	10	21.00	1.00	1.8	1.1	0.33	.....	10	10
5.0	2.4	0.6	0.83	10	24.00	1.00	2.3	1.5	0.33	.....	10	10
5.0	3.0	0.8	1.11	10	32.00	1.00	3.1	2.0	0.33	.....	.....	10
5.0	2.6	1.0	1.11	10	27.00	1.00	2.3	1.5	0.33	.....	.....	10
5.0	1.8	0.5	0.83	10	18.00	1.00	1.9	1.2	0.33	.....	25	10
5.0	3.2	0.7	0.83	10	28.00	1.00	2.5	1.6	0.33	.....	.....	10
5.0	1.6	0.3	0.83	10	14.00	1.00	1.1	0.7	0.33	.....	25	10
5.0	2.0	0.75	0.83	10	20.00	1.00	1.6	1.0	0.33	.....	10	10
†5.0	1.6	0.35	0.83	10	16.00	1.00	1.5	0.9	0.33	.....	25	10
5.0	2.2	0.8	0.83	10	21.00	-1.00	1.8	1.1	0.33	.....	10	10

\*0.33 cents per kw-hr for the next 360 hours' use plus 0.133 cents per kw-hr for all additional.

†Min.—500 watts.

## STATEMENT

**Cost of Power to Municipalities and Rates to Consumers for  
for the Year 1944, in Urban Municipalities**

Municipality  C—City T—Town (pop. 2,000 or more)	Annual cost to the Commission on the works to serve electrical energy to municipa- lity on a horse- power basis	Domestic service					
		Service charge per month	First rate		All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount
			Number of kw-hrs. per month	Per kw-hr. per month			
Harriston.....T	\$ 32.04	cents	55	cents	cents	\$ 1.11	10
Harrow.....T	28.42		60	3.3	1.0	0.83	10
Hastings.....	31.93		45	4.2	1.0	1.11	10
Havelock.....	38.07		60	3.0	1.0	0.83	10
Hensall.....	34.97		60	3.5	1.1	1.11	10
Hepworth.....			60	4.0	1.2	1.67	10
Hespeler.....T	22.07		60	2.8	0.9	0.83	10
Highgate.....	32.90		60	3.2	0.9	1.11	10
Hislop Townsite.....		33-66	50	6.0	1.5	1.94	10
Holstein.....	39.00		50	4.0	1.1	1.11	10
Hudson Townsite.....			60	6.0	2.0	2.00	10
Humberstone.....	22.52		60	2.6	0.8	0.83	10
Huntsville.....T	26.77		60	2.0	0.9	0.83	10
Ingersoll.....T	22.79		60	2.4	0.9	0.83	10
Iroquois.....	21.97		60	3.0	1.0	0.83	10
Jarvis.....	32.72		60	3.4	1.0	1.11	10
Kearns Townsite.....		33-66	50	6.0	2.0	1.94	10
Kemptville.....	28.77		55	3.5	1.2	0.83	10
Kincardine.....T	30.02		40	4.0	1.1	1.11	10
King Kirkland Townsite.....		33-66	50	6.0	1.5	3.06	10
Kingston.....C	20.07		50	2.2	0.8	0.83	10
Kingsville.....T	27.90		60	2.8	0.9	0.83	10
Kirkfield.....	39.00		50	5.0	1.2	1.66	10
Kitchener.....C	21.38		60	2.3	1.0	0.83	10
Lakefield.....	22.58		55	3.3	1.0	0.83	10
Lambeth.....	28.96		60	3.0	1.0	1.11	10
Lanark.....	34.78		50	3.8	1.2	0.83	10
Lancaster.....	39.00		60	3.5	1.0	0.83	10
La Salle.....T	26.68		60	3.8	1.2	1.11	10
Leamington.....T	27.83		60	2.3	0.8	0.83	10
Leaside.....T		a3		b1.8	1.0	0.83	10
Lindsay.....T	25.26		60	2.5	0.9	0.83	10
Listowel.....T	27.24		60	2.4	1.0	0.83	10
London.....C	21.58		60	2.4	0.9	0.83	10
London Twp.....	24.67		60	2.9	1.0	1.11	10
Long Branch.....	22.44		60	2.5	1.1	0.83	10
Lucan.....	27.28		60	3.0	1.0	1.11	10
Lucknow.....	32.85		55	3.5	1.1	1.39	10
Lynden.....	27.15		60	3.4	1.1	1.39	10
MacTier.....		33-66	40	5.0	2.0	1.66	10

aService charge per 100 sq. ft. floor area.

bFirst 3 kw-hrs per 100 sq. ft.

**"E"—Continued****Domestic Service—Commercial Light Service—Power Service  
Served by The Hydro-Electric Power Commission**

Commercial Light service					Power service							
Service charge per 100 watts min. 1,000 watts	First 100 hrs. per month per kw-hr.	All additional per kw-hr.	Minim-um gross monthly bill	Prompt pay-ment discount	Basis of rate 130 hours' monthly use of demand	Service charge per h.p. per month	First 50 hrs. per month per kw-hr.	Second 50 hrs. per month per kw-hr.	All additional per kw-hr.	Minim-um per h.p. per month	Local discount	Prompt pay-ment discount
cents	cents	cents	\$ c.	%	\$ c.	\$ c.	cents	cents	cents	\$ c.	%	%
5.0	2.6	0.7	1.11	10	25.00	1.00	2.0	1.3	0.33	.....	.....	10
5.0	2.6	0.7	0.83	10	24.00	1.00	2.3	1.5	0.33	.....	10	10
5.0	3.6	1.0	1.11	10	37.00	1.00	3.8	2.5	0.33	.....	.....	10
5.0	2.6	0.9	0.83	10	32.00	1.00	3.1	2.0	0.33	.....	.....	10
5.0	3.1	1.0	1.11	10	26.00	1.00	2.2	1.4	0.33	.....	.....	10
5.0	3.5	1.0	1.67	10	45.00	1.00	4.9	3.3	0.33	.....	.....	10
5.0	2.2	0.6	0.83	10	19.00	1.00	2.0	1.4	0.33	.....	25	10
5.0	2.8	0.7	1.11	10	29.00	1.00	2.6	1.7	0.33	.....	.....	10
5.0	6.0	1.5	3.06	10	.....	.....	.....	.....	.....	.....	.....	.....
5.0	3.5	0.8	1.11	10	45.00	1.00	4.9	3.3	0.33	.....	.....	10
5.0	6.0	2.0	*1.00	10	46.00	1.00	5.1	3.4	0.33	.....	.....	10
5.0	2.0	0.5	0.83	10	19.00	1.00	2.0	1.4	0.33	.....	25	10
5.0	1.8	0.7	0.83	10	18.00	1.00	1.9	1.2	0.33	.....	25	10
5.0	1.9	0.5	0.83	10	17.00	1.00	1.7	1.1	0.33	.....	25	10
5.0	2.5	1.0	0.83	10	25.00	1.00	2.0	1.3	0.33	.....	.....	10
5.0	2.6	0.7	1.11	10	26.00	1.00	2.2	1.4	0.33	.....	.....	10
5.0	6.0	2.0	3.06	10	50.00	1.00	5.7	3.8	0.33	.....	.....	10
5.0	2.8	1.0	0.83	10	27.00	1.00	2.3	1.5	0.33	.....	.....	10
5.0	3.3	0.9	1.11	10	28.00	1.00	2.5	1.6	0.33	.....	.....	10
5.0	6.0	1.5	3.89	10	.....	.....	.....	.....	.....	.....	.....	.....
5.0	1.6	0.5	0.83	10	16.00	1.00	1.5	0.9	0.33	.....	25	10
5.0	1.9	0.6	0.83	10	23.00	1.00	2.1	1.4	0.33	.....	10	10
5.0	4.5	1.0	1.66	10	40.00	1.00	4.3	2.8	0.33	.....	.....	10
5.0	2.0	0.6	0.83	10	19.00	1.00	2.0	1.4	0.33	.....	25	10
5.0	2.8	1.0	0.83	10	24.00	1.00	2.3	1.5	0.33	.....	10	10
5.0	2.6	0.8	1.11	10	25.00	1.00	2.0	1.3	0.33	.....	.....	10
5.0	3.3	1.0	0.83	10	38.00	1.00	4.0	2.6	0.33	.....	.....	10
5.0	3.0	1.0	0.83	10	45.00	1.00	4.9	3.3	0.33	.....	.....	10
5.0	3.3	1.0	1.11	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
5.0	1.8	0.5	0.83	10	19.00	1.00	2.0	1.4	0.33	.....	25	10
$\{ \begin{matrix} c3.0 \\ d2/3 \end{matrix} \}$		1/3	0.83	10	$\{ \begin{matrix} e1.10 \\ .90 \end{matrix} \}$		2.0	1.0	$\{ \begin{matrix} f1/3 \\ 1/6 \end{matrix} \}$		.....	10
5.0	2.2	0.7	0.83	10	18.00	1.00	1.9	1.2	0.33	.....	25	10
5.0	2.1	0.5	0.83	10	19.00	1.00	2.0	1.4	0.33	.....	25	10
5.0	1.8	0.4	0.83	10	16.00	1.00	1.5	0.9	0.33	.....	25	10
5.0	2.5	0.6	1.11	10	21.00	1.00	1.8	1.1	0.33	.....	10	10
5.0	2.0	0.6	0.83	10	20.00	1.00	1.6	1.0	0.33	.....	10	10
5.0	2.6	0.6	1.11	10	24.00	1.00	2.3	1.5	0.33	.....	10	10
5.0	3.0	0.8	1.39	10	33.00	1.00	3.2	2.1	0.33	.....	.....	10
5.0	3.0	1.0	0.83	10	25.00	1.00	2.0	1.3	0.33	.....	.....	10
5.0	5.0	1.0	1.66	10	40.00	1.00	4.3	2.8	0.33	.....	.....	10

\*Per 100 watts. Min. \$2.00, Max. \$5.00.

cFirst 80 hours' use. eFirst 7.5 kilowatts \$1.10 per kw; all additional 90c per kw.

dSecond 80 hours' use. f1/3c per kw-hr, next 300 hrs; all additional 1/6c per kw-hr.

## STATEMENT

Cost of Power to Municipalities and Rates to Consumers for  
for the Year 1944, in Urban Municipalities

Municipality  C—City T—Town (pop. 2,000 or more)	Annual cost to the Commission on the works to serve electrical energy to municipi- lity on a horse- power basis	Domestic service					
		Service charge per month	First rate		All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount
			Number of kw-hrs. per month	Per kw-hr. per month			
Madoc.....	\$ 34.54	cents	60	cents	cents	\$ 0.83	10
Markdale.....	27.88	.....	60	2.5	1.0	0.83	10
Markham.....	25.78	.....	60	2.8	1.0	0.83	10
Marmora.....	30.44	.....	60	3.8	1.0	1.11	10
Martintown.....	29.69	.....	50	3.0	1.0	1.11	10
Matachewan Townsite.....	.....	.....	50	4.5	1.0	1.11	10
Maxville.....	37.42	.....	55	4.0	1.0	0.83	10
Meaford..... T	27.93	.....	60	2.8	1.0	0.83	10
Merlin.....	30.97	.....	60	3.3	1.0	1.11	10
Merritton..... T	18.79	.....	60	2.4	0.9	0.83	10
Midland..... T	22.40	.....	60	2.5	1.0	0.83	10
Mildmay.....	30.58	.....	50	3.0	1.0	1.39	10
Millbrook.....	29.45	.....	60	5.5	1.3	0.83	10
Milton..... T	24.17	.....	60	3.0	1.0	0.83	10
Milverton.....	27.83	.....	60	2.5	1.0	0.90	10
Mimico..... T	21.39	.....	60	2.5	1.0	0.83	10
Mitchell..... T	25.47	.....	60	2.9	1.1	0.83	10
Moorefield.....	39.00	.....	55	3.5	1.2	1.39	10
Mooretown Townsite.....	.....	33-66	50	6.0	2.0	3.00	10
Morrisburg.....	24.42	.....	60	3.0	1.0	0.83	10
Mount Brydges.....	29.42	.....	60	2.6	0.9	1.11	10
Mount Forest..... T	33.62	.....	60	3.0	1.25	0.83	10
Napanee..... T	23.29	.....	55	3.2	1.0	0.83	10
Neustadt.....	32.11	.....	60	4.5	1.1	1.39	10
Newburgh.....	.....	.....	60	5.0	1.5	1.39	10
Newbury.....	36.20	.....	60	4.5	1.2	1.11	10
Newcastle.....	26.85	.....	60	4.0	1.0	1.11	10
New Hamburg.....	24.88	.....	60	3.0	1.0	0.83	10
New Toronto..... T	23.31	.....	60	2.4	1.0	0.83	10
Niagara Falls..... C	16.42	.....	60	2.2	0.8	0.83	10
Niagara-on-the-Lake.. T	19.68	.....	60	2.6	1.0	0.83	10
Nipigon Twp.....	22.83	.....	60	3.0	1.0	1.11	10
Nipissing.....	.....	33	50	6.0	2.0	1.67	10
North Bay..... C	.....	.....	60	2.6	1.1	0.83	10
North York Twp.....	22.89	.....	60	3.3	1.1	0.83	10
Norwich.....	25.67	.....	60	2.8	0.9	0.83	10
Norwood.....	27.13	.....	50	4.0	1.2	1.11	10
Oil Springs.....	30.80	.....	60	2.6	0.9	1.11	10
Omemee.....	27.21	.....	60	3.5	1.0	0.83	10
Orangeville..... T	31.68	.....	55	3.0	1.0	1.11	10
Orono.....	33.39	.....	60	5.0	1.2	1.11	10
Oshawa..... C	23.77	.....	50	3.8	1.1	0.83	10
Ottawa..... C	14.69	33-66	{60	1.0}	0.5	0.83	10
Otterville.....	29.75	.....	60	2.8	0.9	1.11	10
Owen Sound..... C	23.54	.....	60	2.1	0.8	0.83	10

**"E"—Continued****Domestic Service—Commercial Light Service—Power Service  
Served by The Hydro-Electric Power Commission**

Commercial Light service					Power service							
Service charge per 100 watts min. 1,000 watts	First 100 hrs. per month per kw-hr.	All additional per kw-hr.	Minim-um gross monthly bill	Prompt payment discount	Basis of rate 130 hours' monthly use of demand	Service charge per h.p. per month	First 50 hrs. per month per kw-hr.	Second 50 hrs. per month per kw-hr.	All additional per kw-hr.	Minim-um per h.p. per month	Local discount	Prompt payment discount
cents	cents	cents	\$ c.	%	cents	cents	cents	cents	cents	\$ c.	%	%
5.0	2.6	0.9	0.83	10	35.00	1.00	3.5	2.3	0.33	.....	.....	10
5.0	2.0	1.0	0.83	10	28.00	1.00	2.5	1.6	0.33	.....	.....	10
5.0	2.4	0.6	0.83	10	21.00	1.00	1.8	1.1	0.33	.....	10	10
5.0	3.4	1.0	1.11	10	35.00	1.00	3.5	2.3	0.33	.....	.....	10
5.0	3.0	1.0	1.66	10	45.00	1.00	4.9	3.3	0.33	.....	.....	10
5.0	4.5	1.0	1.66	10	35.00	1.00	3.5	2.3	0.33	.....	.....	10
5.0	3.5	1.0	0.83	10	45.00	1.00	4.9	3.3	0.33	.....	.....	10
5.0	2.2	0.8	0.83	10	24.00	1.00	2.3	1.5	0.33	.....	10	10
5.0	2.8	0.7	1.11	10	30.00	1.00	2.8	1.8	0.33	2.22	.....	10
5.0	1.7	0.5	0.83	10	16.00	1.00	1.5	0.9	0.33	.....	25	10
5.0	2.0	0.9	0.83	10	17.00	1.00	1.7	1.1	0.33	.....	25	10
5.0	2.7	0.8	1.39	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
5.0	5.0	1.3	0.83	10	35.00	1.00	3.5	2.3	0.33	.....	.....	10
5.0	2.5	0.5	0.83	10	22.00	1.00	1.9	1.3	0.33	.....	10	10
5.0	2.2	0.7	0.90	10	20.00	1.00	1.6	1.0	0.33	.....	10	10
5.0	2.0	0.6	0.83	10	21.00	1.00	1.8	1.1	0.33	.....	10	10
5.0	2.4	0.7	0.83	10	21.00	1.00	1.8	1.1	0.33	.....	10	10
5.0	3.1	1.0	1.39	10	35.00	1.00	3.5	2.3	0.33	.....	.....	10
5.0	6.0	2.0	5.00	10	.....	.....	.....	.....	.....	.....	.....	.....
5.0	2.7	0.8	0.83	10	23.00	1.00	2.1	1.4	0.33	.....	10	10
5.0	2.1	0.6	1.11	10	24.00	1.00	2.3	1.5	0.33	.....	10	10
5.0	2.4	0.9	0.83	10	28.00	1.00	2.5	1.6	0.33	.....	.....	10
5.0	2.8	0.75	0.83	10	19.00	1.00	2.0	1.4	0.33	25	10	10
5.0	4.0	0.8	1.39	10	35.00	1.00	3.5	2.3	0.33	.....	.....	10
5.0	4.5	1.5	1.39	10	45.00	1.00	4.9	3.3	0.33	.....	.....	10
5.0	4.0	1.0	1.11	10	38.00	1.00	4.0	2.6	0.33	.....	.....	10
5.0	3.5	1.0	1.11	10	27.00	1.00	2.3	1.5	0.33	.....	.....	10
5.0	2.4	0.7	0.83	10	21.00	1.00	1.8	1.1	0.33	.....	10	10
5.0	1.8	0.5	0.83	10	18.00	1.00	1.9	1.2	0.33	25	10	10
5.0	1.6	0.35	0.83	10	15.00	1.00	1.3	0.8	0.33	25	10	10
5.0	2.2	0.5	0.83	10	20.00	1.00	1.6	1.0	0.33	.....	10	10
5.0	2.4	0.8	1.11	10	22.00	1.00	1.9	1.3	0.33	.....	10	10
5.0	6.0	1.0	1.67	10	.....	.....	.....	.....	.....	.....	.....	.....
5.0	2.3	0.8	0.83	10	25.00	1.00	2.0	1.3	0.33	.....	.....	10
5.0	3.0	0.7	1.11	10	25.00	1.00	2.0	1.3	0.33	.....	.....	10
5.0	2.2	0.6	0.83	10	19.00	1.00	2.0	1.4	0.33	.....	25	10
5.0	3.6	1.0	1.11	10	34.00	1.00	3.4	2.2	0.33	.....	.....	10
5.0	2.4	0.6	1.11	10	27.00	1.00	2.3	1.5	0.33	.....	.....	10
5.0	3.3	1.0	0.83	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
5.0	2.0	0.8	1.11	10	20.00	1.00	1.6	1.0	0.33	.....	10	10
5.0	4.5	1.0	1.11	10	35.00	1.00	3.5	2.3	0.33	.....	.....	10
5.0	2.8	0.8	0.83	10	21.00	1.00	1.8	1.1	0.33	.....	10	10
5.0	2.1	0.5	0.83	10	18.00	1.00	1.8	1.2	0.15	15 & 10	10	10
5.0	2.5	0.6	1.11	10	26.00	1.00	2.2	1.4	0.33	.....	.....	10
5.0	1.8	0.7	0.83	10	17.00	1.00	1.7	1.1	0.33	25	10	10

## STATEMENT

**Cost of Power to Municipalities and Rates to Consumers for  
for the Year 1944, in Urban Municipalities**

Municipality  C—City T—Town (pop. 2 000 or more)	Annual cost to the Commission on the works to serve electrical energy to municipa- lity on a horse- power basis	Domestic service					
		Service charge per month	First rate		All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount
			Number of kw-hrs. per month	Per kw-hr. per month			
Paisley.....	\$ 37.25	cents	50	cents	cents	\$ c.	%
Palmerston.....T	30.40		60	2.7	1.1	1.11	10
Paris.....T	21.99		60	2.3	0.9	0.83	10
Parkhill.....T	39.00		60	3.4	1.0	1.11	10
Penetanguishene.....T	24.66		60	2.8	1.1	0.83	10
Perth.....T	22.30		55	2.8	1.0	0.83	10
Peterborough.....C	20.17		60	2.3	1.2	0.83	10
Petrolia.....T	27.80		60	2.7	0.8	0.83	10
Picton.....T	28.45		60	2.5	0.8	0.83	10
Plattsville.....	32.02		60	3.8	1.1	1.11	10
Point Edward.....	27.70		60	3.0	1.0	0.83	10
Port Arthur.....C	18.67		50	2.0	0.8	0.83	10 & 10
Port Carling.....		33-66	45	4.7	1.5	1.66	10
Port Colborne.....T	22.36		60	2.8	1.0	0.83	10
Port Credit.....	22.90		60	2.5	1.0	0.83	10
Port Dalhousie.....	21.41		60	2.6	1.0	0.83	10
Port Dover.....	28.08		60	2.5	0.9	0.83	10
Port Elgin.....	29.67	33-66	40	2.5	1.2	1.11	10
Port Hope.....T	24.36		60	2.4	0.9	0.83	10
Port McNicoll.....	27.41		50	4.0	1.5	0.83	10
Port Perry.....	35.76		50	4.0	1.2	1.11	10
Port Rowan.....	31.99		60	3.2	1.1	1.39	10
Port Stanley.....	28.69		60	2.8	1.0	0.83	10
Powassan.....T		33	40	5.0	2.0	1.11	10
Prescott.....T	22.43		60	2.5	1.1	0.83	10
Preston.....T	21.58		60	2.6	0.8	0.83	10
Priceville.....	39.00		60	3.5	1.2	1.39	10
Princeton.....	33.70		60	3.3	1.2	1.67	10
Queenston.....	20.30		60	2.8	1.1	1.11	10
Ramore-Matheson.....			50	6.0	1.5	2.22	10
Red Lake Townsite.....			55	4.8	1.2	1.00	10
Richmond.....	38.66		35	5.0	1.5	1.67	10
Richmond Hill.....	24.02		60	2.5	0.8	0.83	10
Ridgetown.....T	27.74		60	2.3	0.8	0.83	10
Ripley.....	39.00		55	6.0	1.5	1.67	10
Riverside.....T	25.95		60	3.1	1.0	0.83	10
Rockwood.....	28.07		60	3.0	1.1	1.11	10
Rodney.....	36.80		60	2.6	0.8	0.83	10
Rosseau.....	39.00	†33		6.0	2.0	†2.22	10
Russell.....	39.00		55	4.6	1.2	1.39	10

## "E"—Continued

**Domestic Service—Commercial Light Service—Power Service  
Served by The Hydro-Electric Power Commission**

Commercial Light service					Power service							
Service charge per 100 watts min. 1,000 watts	First 100 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount	Basis of rate 130 hours' monthly use of demand	Service charge per h.p. per month	First 50 hrs. per month per kw-hr.	Second 50 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum per h.p. per month	Local discount	Prompt payment discount
cents	cents	cents	\$ c.	%	\$ c.	\$ c.	cents	cents	cents	\$ c.	%	%
5.0	4.0	1.0	1.39	10	42.00	1.00	4.6	3.0	0.33	.....	.....	10
5.0	2.2	0.9	1.11	10	22.00	1.00	1.9	1.3	0.33	.....	10	10
5.0	1.8	0.4	0.83	10	16.00	1.00	1.5	0.9	0.33	.....	25	10
5.0	3.0	0.9	1.11	10	31.00	1.00	2.9	1.9	0.33	.....	.....	10
5.0	2.6	0.8	0.83	10	22.00	1.00	1.9	1.3	0.33	.....	10	10
5.0	2.0	0.6	0.83	10	17.00	1.00	1.7	1.1	0.33	.....	25	10
5.0	2.2	0.8	0.83	10	17.00	1.00	1.7	1.1	0.33	.....	25	10
5.0	2.1	0.5	0.83	10	23.00	1.00	2.1	1.4	0.33	.....	10	10
5.0	2.0	0.6	0.83	10	19.00	1.00	2.0	1.4	0.33	.....	25	10
5.0	3.2	1.0	1.11	10	28.00	1.00	2.5	1.6	0.33	2.00	.....	10
5.0	2.4	0.6	0.83	10	24.00	1.00	2.3	1.5	0.33	.....	10	10
5.0	1.8	0.3	0.83	10 & 10	17.00	1.00	1.7	1.1	0.133	.....	25	10
5.0	4.5	0.8	1.66	10	32.00	1.00	3.1	2.0	0.33	.....	.....	10
5.0	2.3	0.5	0.83	10	19.00	1.00	2.0	1.4	0.33	.....	25	10
5.0	2.0	0.7	0.83	10	22.00	1.00	1.9	1.3	0.33	.....	10	10
5.0	2.0	0.6	0.83	10	17.00	1.00	1.7	1.1	0.33	.....	25	10
5.0	2.1	0.8	0.83	10	22.00	1.00	1.9	1.3	0.33	.....	10	10
5.0	2.5	0.8	1.11	10	26.00	1.00	2.2	1.4	0.33	.....	.....	10
5.0	2.2	0.6	0.83	10	18.00	1.00	1.9	1.2	0.33	.....	25	10
5.0	3.5	1.0	0.83	10	35.00	1.00	3.5	2.3	0.33	.....	.....	10
5.0	3.2	1.0	1.11	10	28.00	1.00	2.5	1.6	0.33	.....	.....	10
5.0	3.0	0.9	1.39	10	32.00	1.00	3.1	2.0	0.33	.....	.....	10
5.0	2.4	0.6	0.83	10	26.00	1.00	2.2	1.4	0.33	.....	.....	10
5.0	5.0	1.0	1.11	10	40.00	1.00	4.3	2.8	0.33	.....	.....	10
5.0	2.2	1.0	0.83	10	19.00	1.00	2.0	1.4	0.33	.....	25	10
5.0	2.1	0.5	0.83	10	17.00	1.00	1.7	1.1	0.33	.....	25	10
5.0	3.0	1.0	1.39	10	40.00	1.00	4.3	2.8	0.33	.....	.....	10
5.0	3.0	1.0	1.67	10	26.00	1.00	2.2	1.4	0.33	.....	.....	10
5.0	2.5	0.8	1.11	10	22.00	1.00	1.9	1.3	0.33	.....	10	10
5.0	6.0	1.5	2.78	10	40.00	1.00	4.3	2.8	0.33	.....	.....	10
5.0	3.8	1.2	1.50	10	33.00	1.00	3.2	2.1	0.33	.....	.....	10
5.0	5.0	1.0	1.67	10	45.00	1.00	4.9	3.3	0.33	.....	.....	10
5.0	2.0	0.5	0.83	10	21.00	1.00	1.8	1.1	0.33	.....	10	10
5.0	1.8	0.5	0.83	10	18.00	1.00	1.9	1.2	0.33	.....	25	10
5.0	5.0	1.0	1.67	10	50.00	1.00	5.7	3.8	0.33	.....	.....	10
5.0	2.6	0.7	0.83	10	25.00	1.00	2.0	1.3	0.33	.....	.....	10
5.0	2.5	0.7	1.11	10	32.00	1.00	3.1	2.0	0.33	.....	.....	10
5.0	2.3	0.5	0.83	10	25.00	1.00	2.0	1.3	0.33	.....	.....	10
5.0	6.0	2.0	†2.22	10	50.00	1.00	5.7	3.8	0.33	.....	.....	10
5.0	4.3	1.0	1.39	10	50.00	1.00	5.7	3.8	0.33	.....	.....	10

\*0.33c per kw-hr for next 360 hours' use plus 0.133c per kw-hr for all additional.

†According to consumers demand.

## STATEMENT

**Cost of Power to Municipalities and Rates to Consumers for  
for the Year 1944, in Urban Municipalities**

Municipality  C—City T—Town (pop. 2,000 or more)	Annual cost to the Commission on the works to serve electrical energy to municip- ality on a horse- power basis	Domestic service					
		Service charge per month	First rate		All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount
			Number of kw-hrs. per month	Per kw-hr. per month			
St. Catharines.....C	\$ 18.84	cents	45-60	cents	cents	\$ 0.83	% 10
St. Clair Beach.....	30.36		60	3.8	1.1	1.39	10
St. George.....	29.64		60	3.0	1.0	1.11	10
St. Jacobs.....	24.59		60	2.6	1.0	0.83	10
St. Marys.....T	26.81		60	3.1	1.0	0.83	10
St. Thomas.....C	23.09		60	2.4	0.8	0.83	10
Sarnia.....C	24.77		60	2.5	0.8	0.83	10
Scarborough Twp.....	23.11		60	2.4	1.0	0.83	10
Seaforth.....T	25.89		60	2.9	1.1	0.83	10
Shelburne.....	31.52		60	3.0	1.0	1.11	10
Simcoe.....T	23.23		60	2.2	0.8	0.83	10
Sioux Lookout.....T			60	6.0	2.0	2.00	10
Smiths Falls.....T	20.58		60	2.6	0.9	0.83	10
Smithville.....	26.50		60	3.6	1.1	1.11	10
Southampton.....T	28.91		40	3.6	1.2	1.11	10
Springfield.....	35.08		60	3.4	1.0	1.11	10
Stamford Twp.....	16.29		60	2.8	0.9	0.83	10
Stayner.....T	28.05		55	3.0	1.1	0.83	10
Stirling.....	20.62		60	2.5	0.9	0.83	10
Stoney Creek.....			60	3.5	1.1	0.83	10
Stouffville.....	28.00		60	2.6	1.0	0.83	10
Stratford.....C	23.63		60	2.8	0.9	0.83	10
Strathroy.....T	24.10		60	2.6	0.8	0.83	10
Streetsville.....	26.22		60	3.0	1.0	0.83	10
Sudbury.....C			60	2.4	1.0	0.83	10
Sunderland.....	38.39		50	4.0	1.2	1.11	10
Sutton.....	33.80		55	3.3	1.1	1.11	10
Swansea.....	23.93		60	2.4	1.0	0.83	10
Tara.....	31.83		55	3.2	1.0	1.11	10
Tavistock.....	26.59		60	2.8	1.0	0.83	10
Tecumseh.....T	28.21		60	3.6	1.0	1.11	10
Teeswater.....	36.91		60	3.8	1.1	1.11	10
Thamesford.....	28.17		60	2.7	0.9	1.11	10
Thamesville.....	28.09		60	2.5	0.8	0.83	10
Thedford.....	39.00		60	4.2	1.0	0.83	10
Thorndale.....	37.72		60	4.0	1.0	1.11	10
Thornton.....	39.00		60	4.0	1.0	1.39	10
Thorold.....T	19.56		60	2.2	0.8	0.83	10
Tilbury.....T	26.22		60	2.2	0.8	0.83	10
Tillsonburg.....T	24.11		60	2.3	0.8	0.83	10

**"E"—Continued**
**Domestic Service—Commercial Light Service—Power Service  
Served by The Hydro-Electric Power Commission**

Commercial Light service					Power service							
Service charge per 100 watts min. 1,000 watts	First 100 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount	Basis of rate 130 hours' monthly use of demand	Service charge per h.p. per month	First 50 hrs. per month per kw-hr.	Second 50 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum per h.p. per month	Local discount	Prompt payment discount
cents *5.0	cents 1.6	cents 1/3	\$ c. 0.83	% 10	\$ c. 15.00	1.00	cents 1.3	cents 0.8	cents 0.33	\$ c. .....	% 25	% 10
5.0	3.8	1.0	1.39	10	32.00	1.00	3.1	2.0	0.33	.....	.....	10
5.0	2.5	0.6	1.11	10	24.00	1.00	2.3	1.5	0.33	.....	10	10
5.0	2.2	0.6	0.83	10	20.00	1.00	1.6	1.0	0.33	.....	10	10
5.0	2.5	0.8	0.83	10	23.00	1.00	2.1	1.4	0.33	.....	10	10
5.0	1.7	0.3	0.83	10	15.00	1.00	1.3	0.8	0.33	.....	25	10
5.0	1.9	0.4	0.83	10	19.00	1.00	2.0	1.4	0.33	.....	25	10
5.0	2.0	0.5	0.83	10	21.00	1.00	1.8	1.1	0.33	.....	10	10
5.0	2.2	0.7	0.83	10	21.00	1.00	1.8	1.1	0.33	.....	10	10
5.0	2.5	0.9	1.11	10	23.00	1.00	2.1	1.4	0.33	.....	10	10
5.0	1.8	0.4	0.83	10	18.00	1.00	1.9	1.2	0.33	.....	25	10
5.0	6.0	2.0	†1.00	10	40.00	1.00	4.3	2.8	0.33	.....	.....	10
5.0	2.0	0.5	0.83	10	18.00	1.00	1.9	1.2	0.33	.....	25	10
5.0	3.1	0.8	1.11	10	27.00	1.00	2.3	1.5	0.33	.....	.....	10
5.0	2.8	0.8	1.11	10	25.00	1.00	2.0	1.3	0.33	.....	.....	10
5.0	3.0	1.0	1.11	10	32.00	1.00	3.1	2.0	0.33	.....	.....	10
5.0	2.0	0.5	0.83	10	16.00	1.00	1.5	0.9	0.33	.....	25	10
5.0	2.3	0.9	0.83	10	23.00	1.00	2.1	1.4	0.33	.....	10	10
5.0	2.0	0.8	0.83	10	18.00	1.00	1.9	1.2	0.33	.....	25	10
5.0	3.2	0.7	0.83	10	27.00	1.00	2.3	1.5	0.33	.....	.....	10
5.0	2.3	0.7	0.83	10	22.00	1.00	1.9	1.3	0.33	.....	10	10
5.0	2.0	0.4	0.83	10	21.00	1.00	1.8	1.1	0.33	.....	10	10
5.0	2.0	0.5	0.83	10	19.00	1.00	2.0	1.4	0.33	.....	25	10
5.0	2.5	0.7	0.83	10	24.00	1.00	2.3	1.5	0.33	.....	10	10
5.0	2.4	0.8	0.83	10	26.00	1.00	2.2	1.4	0.33	.....	.....	10
5.0	3.6	1.0	1.11	10	35.00	1.00	3.5	2.3	0.33	.....	.....	10
5.0	3.1	0.8	1.11	10	28.00	1.00	2.5	1.6	0.33	.....	.....	10
5.0	2.0	0.6	0.83	10	20.00	1.00	1.6	1.0	0.33	.....	10	10
5.0	2.7	0.8	1.11	10	36.00	1.00	3.7	2.4	0.33	.....	.....	10
5.0	2.3	0.6	0.83	10	21.00	1.00	1.8	1.1	0.33	.....	10	10
5.0	3.0	0.7	1.11	10	26.00	1.00	2.2	1.4	0.33	.....	.....	10
5.0	3.3	0.8	1.11	10	40.00	1.00	4.3	2.8	0.33	.....	.....	10
5.0	2.1	0.6	1.11	10	21.00	1.00	1.8	1.1	0.33	.....	10	10
5.0	1.9	0.5	0.83	10	23.00	1.00	2.1	1.4	0.33	.....	10	10
5.0	3.7	0.8	0.83	10	40.00	1.00	4.3	2.8	0.33	.....	.....	10
5.0	3.2	0.9	1.11	10	32.00	1.00	3.1	2.0	0.33	.....	.....	10
5.0	3.5	1.0	1.39	10	40.00	1.00	4.3	2.8	0.33	.....	.....	10
5.0	1.6	0.35	0.83	10	16.00	1.00	1.5	0.9	0.33	.....	25	10
5.0	1.7	0.4	0.83	10	17.00	1.00	1.7	1.1	0.33	.....	25	10
5.0	1.8	0.4	0.83	10	19.00	1.00	2.0	1.4	0.33	.....	25	10

\*Min. 500 watts.

†\$1.00 per 100 watts. Min. \$2.00. Max. \$5.00.

## STATEMENT

Cost of Power to Municipalities and Rates to Consumers for  
for the Year 1944, in Urban Municipalities

Municipality  C—City T—Town (pop. 2,000 or more)	Annual cost to the Commission on the works to serve electrical energy to municipali- ty on a horse- power basis	Domestic service						
		Service charge per month	First rate		All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount	
			Number of kw-hrs. per month	Per kw-hr. per month				
		\$ c.	cents	cents	cents	\$ c.	%	
Toronto.....	C	20.56	a3	.....	b1.8	1.0	0.83	10
Toronto Twp.		23.54	.....	60	2.9	1.0	1.11	10
Tottenham.....		39.00	.....	40	4.5	1.2	1.39	10
Trafalgar Twp. Area 1.		25.40	.....	60	3.1	1.7	†2.22	10
Trafalgar Twp. Area 2.		26.92	.....	60	3.6	1.2	1.11	10
Trenton.....	T	18.94	.....	60	2.3	0.8	0.83	10
Tweed.....		33.64	.....	50	3.8	1.0	0.83	10
Uxbridge.....	T	35.07	.....	60	3.2	1.1	1.11	10
Victoria Harbour.....		29.13	.....	60	2.8	1.0	1.11	10
Walkerton.....	T	23.83	.....	50	3.6	1.1	1.11	10
Wallaceburg.....	T	25.42	.....	60	2.6	0.8	0.83	10
Wardsville.....		39.00	.....	60	5.0	1.0	1.39	10
Warkworth.....		31.88	.....	50	3.5	1.2	1.11	10
Waterdown.....		23.47	.....	60	2.5	1.0	0.83	10
Waterford.....		24.00	.....	60	2.4	0.9	0.83	10
Waterloo.....	T	21.59	.....	60	2.0	0.9	0.83	10
Watford.....		30.21	.....	60	3.3	1.0	1.11	10
Waubaushene.....		26.09	.....	55	3.0	1.0	1.11	10
Welland.....	C	19.28	.....	60	2.0	0.8	0.83	10
Wellesley.....		29.08	.....	55	3.0	1.1	1.11	10
Wellington.....		26.64	.....	60	2.8	1.25	0.83	10
West Lorne.....		31.40	.....	60	2.6	0.8	0.83	10
Weston.....	T	21.13	.....	60	2.4	0.9	0.83	10
Westport.....		39.00	.....	50	4.5	1.2	1.94	10
Wheatley.....		36.15	.....	60	3.0	1.0	0.83	10
Whitby.....	T	22.91	.....	60	2.6	0.9	0.83	10
Wiarton.....	T	39.00	.....	50	3.2	1.0	1.11	10
Williamsburg.....		25.81	.....	60	2.0	0.8	0.83	10
Winchester.....		25.19	.....	60	2.4	1.2	0.83	10
Windermere.....		39.00	†33	.....	5.0	1.5	†2.22	10
Windsor.....	C	23.10	.....	60	2.8	0.8	0.83	10
Wingham.....	T	31.37	.....	50	3.2	1.1	1.11	10
Woodbridge.....		24.34	.....	60	2.8	1.0	0.83	10
Woodstock.....	C	21.98	.....	60	2.4	0.8	0.83	10
Woodville.....		37.76	.....	50	3.8	1.0	1.11	10
Wyoming.....		34.40	.....	60	3.0	0.9	1.11	10
York Twp.....		20.62	.....	60	2.5	1.0	0.83	10
Zurich.....		38.33	.....	60	3.8	1.0	1.11	10

aService charge per 100 sq. ft. floor area.

bPer kw-hr for first 3 kw-hrs per 100 sq. ft.

\*Under 10 kw, \$0.83 minimum bill.

†Over 10 kw. \$2.22 minimum bill.

‡According to consumers demand.

## **"E"—Concluded**

**Domestic Service—Commercial Light Service—Power Service  
Served by The Hydro-Electric Power Commission**

Commercial Light service					Power service								
Service charge per 100 watts min. 1,000 watts	First 100 hrs. per month per kw-hr.	All additional per kw-hr.	Minim-um gross monthly bill	Prompt payment discount	Basis of rate 130 hours' monthly use of demand	Service charge per h.p. per month	50 hrs. per month per kw-hr.	First 50 hrs. per month per kw-hr.	Second 50 hrs. per month per kw-hr.	All additional per kw-hr.	Minim-um per h.p. per month	Local discount	Prompt payment discount
cents	cents	cents	\$ c.	%	\$ c.	\$ c. d D.C.	\$ c. A.C.	cents	cents	\$ c.	%	%	
.....	c 2/3	1/3	0.83	10	.....	.....	2.0	1.0	e 1/3 1/6	.....	.....	.....	10
5.0	2.2	0.6	1.11	10	22.00	1.00	1.9	1.3	0.33	.....	.....	10	10
5.0	4.0	1.0	1.39	10	35.00	1.00	3.5	2.3	0.33	.....	.....	.....	10
5.0	2.8	0.7	0.83	10	26.00	1.00	2.2	1.4	0.33	.....	.....	.....	10
5.0	2.8	0.7	1.11	10	28.00	1.00	2.5	1.6	0.33	.....	.....	.....	10
5.0	1.9	0.6	0.83	10	19.00	1.00	2.0	1.4	0.33	.....	.....	25	10
5.0	3.3	1.0	0.83	10	30.00	1.00	2.8	1.8	0.33	.....	.....	.....	10
5.0	2.8	0.9	1.11	10	28.00	1.00	2.5	1.6	0.33	.....	.....	.....	10
5.0	2.2	0.8	1.11	10	30.00	1.00	2.8	1.8	0.33	.....	.....	.....	10
5.0	2.4	0.9	1.11	10	28.00	1.00	2.5	1.6	0.33	.....	.....	.....	10
5.0	2.0	0.5	0.83	10	19.00	1.00	2.0	1.4	0.33	.....	.....	25	10
5.0	4.5	0.8	1.39	10	35.00	1.00	3.5	2.3	0.33	.....	.....	.....	10
5.0	3.0	1.0	1.11	10	32.00	1.00	3.1	2.0	0.33	.....	.....	.....	10
5.0	2.0	0.5	0.83	10	18.00	1.00	1.9	1.2	0.33	.....	.....	25	10
5.0	1.9	0.6	0.83	10	17.00	1.00	1.7	1.1	0.33	.....	.....	25	10
5.0	1.9	0.4	0.83	10	18.00	1.00	1.9	1.2	0.33	.....	.....	25	10
5.0	2.9	0.9	1.11	10	30.00	1.00	2.8	1.8	0.33	.....	.....	.....	10
5.0	2.2	1.0	1.11	10	33.00	1.00	3.2	2.1	0.33	.....	.....	.....	10
5.0	1.6	0.3	0.83	10	16.00	1.00	1.5	0.9	0.33	.....	.....	25	10
5.0	2.7	0.8	1.11	10	24.00	1.00	2.3	1.5	0.33	.....	.....	10	10
5.0	2.5	0.9	0.83	10	30.00	1.00	2.8	1.8	0.33	.....	.....	.....	10
5.0	2.3	0.5	0.83	10	24.00	1.00	2.3	1.5	0.33	.....	.....	10	10
5.0	1.6	0.4	0.83	10	17.00	1.00	1.7	1.1	0.33	.....	.....	25	10
5.0	4.0	1.0	1.94	10	45.00	1.00	4.9	3.3	0.33	.....	.....	.....	10
5.0	2.6	0.7	0.83	10	28.00	1.00	2.5	1.6	0.33	.....	.....	.....	10
5.0	2.2	0.6	0.83	10	24.00	1.00	2.3	1.5	0.33	.....	.....	10	10
5.0	2.9	0.8	1.11	10	35.00	1.00	3.5	2.3	0.33	.....	.....	.....	10
5.0	2.0	0.8	0.83	10	32.00	1.00	3.1	2.0	0.33	.....	.....	.....	10
5.0	2.0	0.8	0.83	10	24.00	1.00	2.3	1.5	0.33	.....	.....	10	10
5.0	5.0	1.5	2.22	10	45.00	1.00	4.9	3.3	0.33	.....	.....	.....	10
5.0	2.3	0.5	0.83	10	19.00	1.00	2.0	1.4	0.33	.....	.....	25	10
5.0	2.6	0.8	1.11	10	28.00	1.00	2.5	1.6	0.33	.....	.....	.....	10
5.0	2.4	0.6	0.83	10	19.00	1.00	2.0	1.4	0.33	.....	.....	25	10
5.0	1.8	0.4	0.83	10	16.00	1.00	1.5	0.9	0.33	.....	.....	25	10
5.0	2.8	0.8	1.11	10	28.00	1.00	2.5	1.6	0.33	.....	.....	.....	10
5.0	2.7	0.6	1.11	10	31.00	1.00	2.9	1.9	0.33	.....	.....	.....	10
5.0	2.0	0.75	0.83	10	20.00	1.00	1.6	1.0	0.33	.....	.....	10	10
5.0	3.2	0.9	1.11	10	35.00	1.00	3.5	2.3	0.33	.....	.....	.....	10

First 80 hours' use—3c per kw-hr    Next 80 hours' use— $\frac{2}{3}$ c per kw-hr

d.C.—Service charge \$1.50 per kw per month for first  $7\frac{1}{2}$  kw, plus \$1.05 per kw for all additional demand.

A.C.—Service charge \$1.10 per kw per month for first  $7\frac{1}{2}$  kw, plus \$0.90 per kw for all additional demand.

e1/3c per kw-hr for next 300 hours' use plus 1/6c. per kw-hr, for all additional



## APPENDIX I

### ACTS

#### CHAPTER 46

An Act to amend The Power Commission Act.

*Assented to March 14th, 1944, except Section 3.*

*Section 3 Assented to April 6th, 1944*

*Session Prorogued April 6th, 1944.*

HIS MAJESTY, by and with the advice and consent of the Legislative Assembly of the Province of Ontario, enacts as follows:

1. Section 1 of *The Power Commission Act* is amended by adding thereto the following clause: Rev. Stat., c. 62, s. 1, amended.

(aa) "Advisory Council" shall mean The Ontario Hydro-Electric Advisory Council. "Advisory Council".

2. *The Power Commission Act* is amended by adding thereto the following section: Rev. Stat., c. 62, amended.

6a.—(1) There shall be an advisory council to be known as The Ontario Hydro-Electric Advisory Council which shall consist of five members appointed by the Lieutenant-Governor in Council each of whom shall hold office for two years from the date of his appointment or such other period as the Lieutenant-Governor in Council may prescribe and every such member shall be eligible for re-appointment. Advisory Council.

(2) The members of the Advisory Council shall elect from amongst themselves a presiding officer whose term of office shall be one year, and who shall be eligible for re-election. Presiding officer.

**Meetings.** (3) The Advisory Council shall meet on the call of its presiding officer on three days' written notice, and also whenever requested to do so by the Commission on similar notice.

**Reports.** (4) The Advisory Council shall make a report for the consideration and assistance of the Commission upon every matter submitted to the Advisory Council by the Commission and upon any matter relative to the purposes of the Commission upon which the members of the Advisory Council deem it advisable to report.

**Remuneration.** (5) The members of the Advisory Council shall be paid such per diem allowance and travelling expenses as the Lieutenant-Governor in Council shall from time to time decide.

**Assistance.** (6) The Commission may provide the Advisory Council with such professional, technical, secretarial and other assistance as the Commission may see fit, and the cost thereof shall be deemed to be part of the administration expenses of the Commission.

**Unqualified persons.** (7) No senator or member of the House of Commons of the Parliament of Canada, and no member of the Legislative Assembly of Ontario, and no person not entitled to vote at the election of members of the Legislative Assembly of Ontario shall be eligible to be a member of the Advisory Council.

**Termination of appointment.** (8) The Lieutenant-Governor in Council may terminate the appointment of any member who in his opinion is incapable of performing his duties.

**Council may act notwithstanding vacancy** (9) The Advisory Council may act notwithstanding any vacancy in its membership and three members shall constitute a quorum at any meeting.

**Rev. Stat., c. 62, s. 21, subs. 5, amended.** 3. Subsection 5 of section 21 of *The Power Commission Act* is amended by striking out the word "authorize" in the second line and inserting in lieu thereof the word "authorized", so that the said subsection shall now read as follows:

**Procedure.** (5) Except as otherwise provided in this Act the Commission shall, in the exercise of its compulsory powers authorized by this section and section 28, proceed in the manner provided by *The Public Works Act*, where the Minister of Public Works takes land or property for the use of Ontario, and all the provisions of that Act with respect to the fixing, payment and application of compensation shall *mutatis mutandis* apply.

**Rev. Stat., c. 54.**

4. Section 33a of *The Power Commission Act* as enacted by Rev. Stat., c. 62, s. 33a, section 2 of *The Power Commission Amendment Act, 1939*, is (1939, c 35, s. 2) repealed and the following substituted therefor:

33a.—(1) Notwithstanding anything in this Act or any other general or special Act, where works of the Commission have been affixed to realty they shall remain subject to the rights of the Commission as fully as they were before being so affixed and shall not become part of the realty unless otherwise agreed by the Commission in writing.

(2) Any person who without the consent of the Commission affixes signs on nails or otherwise attaches anything, or causes anything to be nailed or otherwise attached to or upon any property of the Commission shall incur a penalty of not less than \$5 or more than \$10.

(3) The penalties imposed by or under subsection 2 shall be recoverable under *The Summary Convictions Act* and shall be paid over to the Commission.

5. Subsection 12 of section 87 of *The Power Commission Act* is amended by striking out the word "approved" in the second line and inserting in lieu thereof the word "proved".

6.—(1) Subsection 1 of section 96 of *The Power Commission Act* is repealed and the following substituted therefor:

(1) Whenever it appears from the accounts of a municipal corporation or municipal commission that after providing for any payments required to be made on account of principal or interest of any debentures issued for the construction and equipment of works for the production, development or distribution of electrical power or energy, and in the case of a municipal corporation or municipal commission receiving electrical power or energy from the Commission for distribution, after providing for the payments required by this Act, there is a surplus at the credit of the municipal corporation or municipal commission derived from the production, development or distribution of electrical power or energy or from dealing in electrical fittings, fixtures, appliances, machines or equipment, such surplus shall be applied and disposed of in such manner as the Commission may by general regulation or special order direct,—

(a) in repaying to persons to whom electrical power or energy is being supplied by such municipal corporation or municipal commission moneys paid by them In repayment to customers.

In reduction  
of indebted-  
ness.

In erection  
of office  
buildings,  
etc.

Larger  
buildings  
than re-  
quired.—  
leasing  
part for  
other  
utilities.

In main-  
taining,  
repair-  
ing and  
extending  
works.

To general  
purposes of  
municipal  
corporation.

Rev. Stat.,  
c. 62, s. 96,  
sub. 2,  
amended.

Application  
of sections  
notwith-  
standing  
special  
provisions.

for electrical power or energy so supplied, such repayment being made either directly or by a credit on or reduction in bills for electrical power or energy; or

(b) in the reduction of any indebtedness incurred with respect to the construction and equipment of such works; or

(c) In purchasing or otherwise acquiring a site and erecting thereon buildings for the occupation and use of the municipal commission as offices and for other business purposes, subject to the approval by the Commission of the site and cost of the plans of any such building and subject to such approval, any such office building may be larger than is required for the immediate use of the municipal commission, and any part of such building not immediately required for the use of the municipal commission may be leased by it to the corporation or to any other municipal commission for the purpose of any public utility in the municipality; or

(d) in the maintenance, repair or renewal thereof; or

(e) in the extension of such works; or

(f) in the formation of a fund to be used at a future time for any of such purposes; or

(g) to the extent to which such surplus is derived from the supply of electrical power or energy for the public buildings of the corporation or the lighting of the streets of the municipality or for the operation of any street railway or electric railway or any public utility owned and operated by the corporation, by payment over of such surplus, or of such portion thereof as the Commission may deem proper, to the treasurer of the municipality to be applied to the general purposes of the corporation.

(2) Subsection 2 of the said section 96 is amended by adding thereto the words "and shall be deemed so to have applied and to have had effect since the 16th day of April, 1912, so that the said subsection shall now read as follows:

(2) Subsection 1 shall apply to every municipal corporation or municipal commission which has entered into a contract with the Commission for the supply of electrical power or energy, and shall have effect notwithstanding any provision in any general or special Act and shall be deemed so to have applied and to have had effect since the 16th day of April, 1912.

Short title.

7. This Act may be cited as *The Power Commission Amendment Act, 1944.*

## CHAPTER 55

An Act to amend The Rural Power District Service Charge Act.

*Assented to March 14th, 1944.*

*Session Prorogued April 6th, 1944.*

**H**IS MAJESTY, by and with the advice and consent of the Legislative Assembly of the Province of Ontario, enacts as follows:

1. Section 1 of *The Rural Power District Service Charge Act* Rev. Stat., c. 66, s. 1 as re-enacted by section 2 of *The Rural Power District Service Charge Amendment Act, 1938*, is amended by adding thereto the words "and may from time to time reduce or wholly remove any service charge previously fixed", so that the said section shall now read as follows:

1. Notwithstanding anything contained in any Statute Fixing or or municipal by-law or contract, the Lieutenant-Governor altering maximum in Council, upon the recommendation of The Hydro-charge, Electric Power Commission of Ontario, may from time etc. to time make regulations fixing a maximum service charge for any class of service rendered by the Commission in a rural power district and also fixing the minimum number of consumers of different classes per mile of transmission line required for construction of works by the Commission in a rural power district or part thereof and may from time to time reduce or wholly remove any service charge previously fixed.

2.—(1) Subsection 1 of section 2 of *The Rural Power District Service Charge Act* as re-enacted by section 3 of *The Rural Power District Service Charge Amendment Act, 1938*, is repealed and the following substituted therefor:

- (1) Where in any rural power district by reason of such maximum service charge having been fixed, reduced or removed or such minimum number of consumers having been fixed pursuant to section 1, the revenue derived by the Commission for any class of service rendered by it in the rural power district is not sufficient to meet the necessary cost of the service as specified by the Commission, the deficit shall be chargeable to and payable out of the Consolidated Revenue Fund.
- (2) Subsection 3 of the said section 2 is repealed.
3. This Act may be cited as *The Rural Power District Service Charge Amendment Act, 1944.*

Rev. Stat.,  
c. 66, s. 2,  
subs. 3,  
repealed,

Short title.



LARGE GENERATING STATIONS OF  
THE COMMISSION

Top:

Northern Ontario  
Abitibi Canyon—240,000 hp

Centre Left:

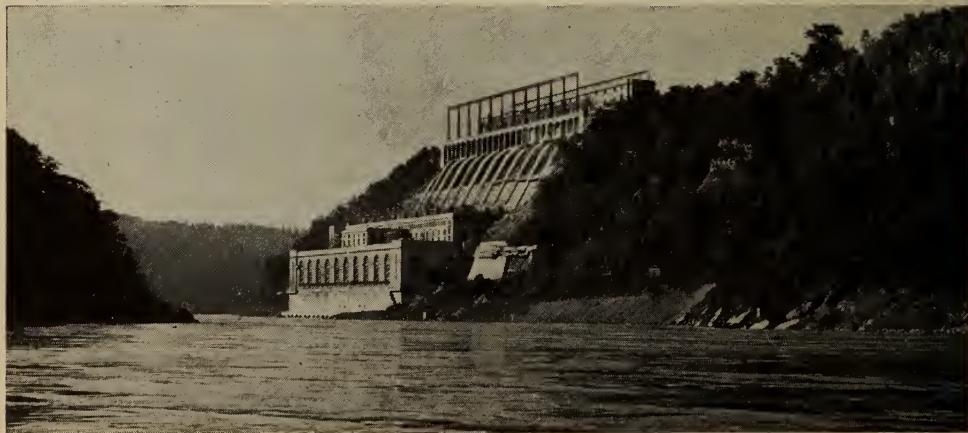
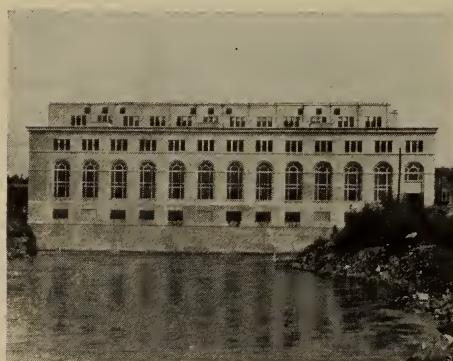
Western Ontario  
Cameron Falls—73,000 hp

Centre Right:

Eastern Ontario  
Barrett Chute—54,000 hp

Bottom:

Southern Ontario  
Queenston—525,000 hp



## APPENDIX II

### GENERATING STATIONS

**Operated by The Hydro-Electric Power Commission of Ontario  
on Behalf of Municipalities Comprising the Co-operative Systems  
and on Behalf of the Province in the case of the  
Northern Ontario Properties**

In 1932, a list of generating stations operated by the Commission was published in the Twenty-fourth Annual Report; year 1931. Seven years later, in 1939, a revised list was published as Appendix IV to the Thirty-first Annual Report; year 1938. Since that time many additions and changes have been made. The following tabulation brings the record up to the end of 1944.

On the following pages, the generating stations are grouped under the systems to which they respectively belong, and particulars are given of the hydraulic features of the developments, the turbines, the generators, the excitors and the step-up and step-down transformers. Transmission line mileage is route or structure mileage not circuit mileage.

#### Abbreviations

hp . . . . . . .	horsepower
kw . . . . . . .	kilowatts
kva . . . . . . .	kilovolt-amperes
kv . . . . . . .	kilovolts
ft . . . . . . .	foot or feet

#### SOUTHERN ONTARIO SYSTEM

In February 1944 the Niagara, Georgian Bay and Eastern Ontario co-operative systems were amalgamated to form the Southern Ontario system. For many years there had been interchange of power and increasing co-ordination of operation and during 1943 parallel operation of the Niagara and Eastern Ontario power resources and of the Niagara and Georgian Bay power resources was maintained through the frequency-changer equipment at Chats Falls and at Hanover respectively.

The generating stations of the Commission are all water power developments and are listed as encountered ascending the respective rivers and tributaries. The Niagara division operates at 25 cycles except for the Dominion Power and Transmission 50,000 hp plant at DeCew Falls 66½ cycles. The Georgian Bay and Eastern Ontario divisions operate at 60 cycles. The Thunder Bay system operates at 60 cycles. The Abitibi plant of the Northern Ontario Properties operates at 25 cycles; other northern plants at 60 cycles.

### NIAGARA DIVISION

**GENERAL**—This division serves all the territory lying between Niagara Falls, Hamilton and Toronto, on the east, and Windsor, Sarnia and Goderich, on the west and north, with electrical energy generated at plants on the Niagara river, DeCew Falls, and the Ottawa river at Chats Falls, and supplemented with purchased power transmitted from generating stations in the province of Quebec.

**TRANSMISSION LINES**—220 kv = 1,025.12 miles, 110 kv = 924.20 miles, 90 kv—12 kv = 1,308.28 miles, lower voltages not listed.

**TRANSFORMER STATIONS**—Total capacity in 239 stations owned by the Commission = 3,232,902 kva as follows: 1—220 kv step-up 251,000 kva; 2—220 kv step-down 674,300 kva; 3—110 kv step-up 932,180 kva; 24—110 kv step-down 916,500 kva; 196—distributing 440,922 kva; and 3—auto-transformer stations 28,000 kva.

#### Queenston Generating Station

Situated at Queenston, on the Niagara river. Constructed by Commission. Official opening, December 28, 1921. Commercial operation, January 26, 1922. Intake at Chippawa, at mouth of Welland river (Grass Island Pool), above Niagara Falls. Water conveyed through canal 12½ miles long, 4½ miles of which, from intake to Montrose, consists of channel of Welland river, widened and deepened, flow being reversed; remaining 8½ miles excavated concrete-lined canal to forebay at Queenston, thence down the face of the cliff through penstocks provided with automatically operated Johnson valves to the turbines. Net operating head, 294 ft.

**Turbines**—Two 52,500 hp Wellman-Seaver-Morgan; three 55,000 hp William Cramp; five 58,000 hp Dominion Engineering Works, all Francis type, vertical shaft, 187.5 rpm. Total capacity, 560,000 hp.

**Auxiliary Turbines**—Two 2,800 hp Canadian Allis-Chalmers, Francis type, 500 rpm. Total capacity, 5,600 hp.

**Generators**—Three 45,000 kva, two 55,000 kva Canadian Westinghouse Company; two 45,000 kva, three 54,000 kva Canadian General Electric Company, 3-phase, 25 cycles, 12 kv, vertical shaft with thrust bearing, direct connected to turbines. Total capacity, 497,000 kva.

**Auxiliary Generators**—Two 2,200 kva Canadian Westinghouse Company, 3-phase, 2,300 volts, vertical shafts. Total capacity, 4,400 kva.

**Exciters**—Five 150 kw, five 180 kw, direct connected to main generators; two 30 kw direct connected to auxiliary generators.

**Transformers**—Five banks = fifteen 15,000 kva; 5 banks = fifteen 18,333 kva Canadian Westinghouse Company, single-phase, 12 to 63.5 kv to operate 110 kv star connected. Total capacity, 500,000 kva.

#### Ontario Power Generating Station

Situated in Queen Victoria Niagara Falls Park, below Horseshoe Falls. Formerly property of Ontario Power Company. In operation July, 1905. Purchased by Commission, August, 1917. Intake and head works at first cascade of upper rapid, one mile above generating station. Water conveyed through three conduits of steel, concrete, and wood stave respectively to distributors, from which steel penstocks lead through rock cliff to turbines. Net operating head, 180 ft.

**Turbines**—Seven 11,700 hp and five 13,400 hp Voith; two 13,400 hp Wellman-Seaver-Morgan; one 20,000 hp S. Morgan Smith inward flow, Francis twin type, horizontal shaft, 187.5 rpm. Total capacity, 195,700 hp.

**Auxiliary Turbines**—Two 1,600 hp Canadian Allis-Chalmers, Francis type, 300 rpm. Total capacity, 3,200 hp.

**Generators**—Seven 8,776 kva, one 15,000 kva Canadian General Electric Company; four 8,770 kva, three 7,500 kva Westinghouse Electric and Manufacturing Company, 3-phase, 25 cycles, 12 kva, direct connected to turbines. Total capacity, 134,012 kva.

**Auxiliary Generators**—Two 375 kw Westinghouse Electric and Manufacturing Company, motor driven, 250 volt; two 1,060 kw Allis-Chalmers-Bullock, motor and turbine driven, 2,200 volt. Total capacity, 2,879 kw.

**Exciters**—Six 40 kw, ten 60 kw, three 125 kw Canadian General Electric Company, motor driven.

**Transformers**—Five banks = fifteen 3,000 kva, 12 to 60 kv, single-phase, Westinghouse Electric and Manufacturing Company. Total capacity, 45,000 kva.

### Toronto Power Generating Station

Situated in Queen Victoria Niagara Falls Park, above the Horseshoe Falls. Formerly owned by Toronto Power Company. In operation 1906-07. Purchased by Commission, 1922. Water collected by wing dam conveyed to turbines from head works through steel penstocks. Tail-race tunneled through solid rock, discharging under Niagara Falls. Net operating head, 135 ft.

*Turbines*—Seven 15,500 hp, four 13,000 hp William Cramp, all Francis type, vertical shaft, 250 rpm. Total capacity, 160,500 hp.

*Generators*—Two 8,000 kva General Electric Company; two 8,000 kva, seven 10,000 kva Canadian General Electric Company, 3-phase, 25-cycles, 12 kv, direct connected to turbines. Total capacity, 102,000 kva.

*Auxiliary Generators*—Two 300 kw Canadian General Electric Company, motor driven, 125 volts.

*Exciters*—Eleven 50 kw, 125 volts, direct connected to main generators.

*Transformers*—Three banks = nine 2,670 kva, 12 to 60 kv; two banks = six 6,000 kva, 12 to 60 kv; one bank = three 16,000 kva, Canadian General Electric Company, single-phase, 12 to 63.5 kv to operate 110 kv star connected. Total capacity 109,030 kva.

### Chats Falls Generating Station

Situated on the Ottawa river, thirty miles up-stream from the city of Ottawa. Plant controlled and owned jointly by The Hydro-Electric Power Commission of Ontario and the Ottawa Valley Power Company. The plant was designed for 10 units ultimately; first four units in operation October 1931; second four units in operation October 1932. A frequency-changer was installed in the space provided for generator No. 1. Power house and intake integral with dam. Combined length of dam and power house, approximately three miles. Power fed at generator voltage to adjacent outdoor transformer station, where it is stepped up to 220 kv for transmission over the Commission's lines to Toronto. Designed operating head, 53 ft.

*Turbines*—Eight 28,000 hp Dominion Engineering Works, propeller type, vertical shaft, 125 rpm. Total capacity, 224,000 hp.

*Generators*—Eight 23,500 kva Canadian Westinghouse Company, 3-phase, 25-cycles, 13.2 kv, direct connected to turbines. Total capacity, 188,000 kva.

*Exciters*—Eight 200 kw Canadian Westinghouse Company, 250 volts, direct connected to main generators.

*Transformers*—Five banks = fifteen 15,700 kva Canadian General Electric Company, single-phase, 13.2 to 127 kv to operate at 220 kv star connected. Total capacity, 235,500 kva.

### Chats Falls Frequency-Changer Station

Situated at the Ontario end of Chats Falls generating station in space provided for future unit No. 1. Constructed by Commission. Placed in service October 13, 1935. Power supplied from Chats Falls generator bus to 25-cycle motor of frequency-changer set and fed from 60-cycle generator to transformer, where it is stepped up to 121 kv for transmission to Eastern Ontario division.

*Frequency-changer*—One 45,000 kva Canadian Westinghouse Company, 13.2 kv, 25/60-cycle, 300 rpm, vertical shaft.

*Exciters*—Two 200 kw, 250-volt generators on same shaft with 600 hp motor, two 10 kw pilot exciters, 120 volt.

*Transformer*—One 45,000 kva Canadian Westinghouse Company, 13.2 to 121 kv, 60-cycles, 3-phase.

**DeCew Falls Extension Generating Station 25-Cycles**

Situated at Power Glen, about four miles from St. Catharines; powerhouse about 500 feet east of old DeCew Falls generating station. In operation October 1943. Water supplied to both plants from Welland Ship canal through a new intake at Allanburg to forebay, thence through head-works and 16½ foot diameter steel penstock to turbine. Tail water passes by improved channel down Twelve Mile creek and Second Welland canal to outlet works at Port Dalhousie and to lake Ontario. Net operating head 265 feet. Turbine and generator were transferred from Abitibi Canyon plant.

*Turbine*—One 70,000 hp Canadian Allis-Chalmers, Francis type, vertical shaft, 150 rpm.

*Generator*—One 48,500 kva Canadian General Electric Company, 3-phase, 25-cycle, 13,800 volts unit, direct connected to turbine.

*Exciters*—One 180 kw and one 7 kw pilot exciter, 250 volts, direct connected to generator shaft.

*Transformers*—Three 22,500 kva Canadian General Electric Company, single-phase, 13.2 to 63.5 kv to operate 110 kv star connected. Total capacity, 67,500 kva.

**DOMINION POWER DIVISION**

**GENERAL**—This division comprises certain urban and rural districts in the vicinity of the cities of St. Catharines, Hamilton and Brantford, formerly served by subsidiaries of the Dominion Power and Transmission Company. Properties, including generating plants, transmission lines, and substations, were purchased in April, 1930. Power is obtained from a hydraulic development at DeCew Falls; 25-cycle power is purchased from Canadian Niagara Power Company and converted to 66.6 cycles at Niagara Falls, and from Welland Ship Canal plant at 66.6 cycles.

**TRANSMISSION LINES**—44 kv = 74.65 miles, 22 to 10 kv = 42.42 miles, lower voltages not included.

**TRANSFORMER STATIONS**—Total capacity in 10 stations owned by the Commission = 96,850 kva as follows: 2 step-up = 55,200 kva; 8 step-down = 41,650 kva.

**DeCew Falls Generating Station**

Situated at Power Glen about four miles from St. Catharines. Formerly owned by Dominion Power and Transmission Company. In operation, August, 1898. Purchased by the Commission in April, 1930. Water supplied from Welland Ship Canal through a new intake at Allanburg, which also supplies water to the new 25-cycle plant, to forebay, thence through seven steel penstocks to turbines. Tail water passes to lake Ontario by same channel as the tail water from the 25-cycle plant. Operating head, 260 ft.

*Turbines*—Six 7,000 hp, one 3,500 hp Voith; two 3,000 hp Riva Monneret, Francis type, horizontal shaft, all 286 rpm. Total capacity, 51,500 hp.

*Auxiliary Turbine*—One 750 hp Voith, Francis type, 800 rpm.

*Generators*—One 2,500 kva, four 6,400 kva Canadian Westinghouse Company; two 5,000 kva Westinghouse Electric and Manufacturing Company; two 2,000 kva Canadian General Electric Company, 3-phase, 66.6 cycles, 2,400 volts, direct connected to turbines. Total capacity, 42,100 kva.

*Auxiliary Generators*—One 500 kva Canadian Westinghouse Company, 66.6 cycles, 2,400 volts, 3-phase, direct connected to turbine.

*Exciters*—One 100 kw Canadian Westinghouse Company; three 100 kw Westinghouse Electric and Manufacturing Company, motor driven; one 40 kw Canadian General Electric Company, belt driven from main generator; one 30 kw Royal Electric Company direct connected to auxiliary turbines, 70 volts.

*Transformers*—Two banks = six 2,000 kva Canadian Westinghouse Company, single-phase, 2.2 to 22 kv; four banks = two 3,200 kva and one 2,500 kva Canadian Westinghouse Company, four 3,200 kva and five 2,500 kva Westinghouse Electric and Manufacturing Company, single-phase, 2.2 to 44 kv. Total capacity, 46,200 kva.

### Niagara Falls Frequency Changer Station

Situated at Niagara Falls. In operation, 1924. Purchased by the Commission in April, 1930. Power supplied to motor at 25 cycles.

*Motor*—One 8,200 kva Canadian Westinghouse Company, 3-phase, 25-cycles, 12 kv.

*Generator*—One 9,000 kva Canadian Westinghouse Company, 3-phase, 66.6 cycles, 13.2 kv.

*Exciter*—One 90 kw, 125 volts, direct connected.

*Transformers*—One bank = three 3,000 kva Canadian Westinghouse Company, single-phase, 13.2 to 48 kv. Total capacity, 9,000 kva.

### GEORGIAN BAY DIVISION

**GENERAL**—This division serves the area adjoining on the north that section of country served by the Niagara division. It is a consolidation of what were formerly four systems known respectively as Severn, Eugenia, Wasdells and Muskoka, to which have been added properties and plants purchased from private interests and incorporated into the system as the Bala district. Power is obtained from developments on the Severn, Beaver, Muskoka and Saugeen rivers, supplemented with purchased power from the Orillia municipal plant. Additional power is provided from the Niagara division through frequency-changers at Hanover.

*Severn district* adjoins the Niagara division on the south, and is the central portion of the Georgian Bay division. Power developments in the district are on the Severn and Muskoka rivers.

*Eugenia district* also adjoins the Niagara division on the south and the Severn district on the east. Power developments are on the Saugeen and Beaver rivers.

*Wasdells district* is the south-eastern portion of the division with power developments on the Severn river.

*Muskoka district* is the north-eastern portion of the division with power developments on the Muskoka river.

*Bala district* serves a small section of territory situated geographically in the Muskoka district.

All districts are now interconnected by tie-lines, so that thirteen stations operate in parallel through one network of transmission lines.

**TRANSMISSION LINES**—110 kv = 25.69 miles, 38 kv = 428.25 miles, and 26.4—6.6 kv = 258.14 miles.

**TRANSFORMER STATIONS**—Total capacity in 83 stations owned by the Commission = 122,720 kva as follows: 7—step-up stations 41,450 kva; 70—step-down 27,520 kva; 5—Auto-transformer stations 19,500 kva; and 1—Frequency-changer station 34,250 kva.

### Big Eddy Generating Station

Situated on Muskoka river approximately 8 miles west of Bala. Operating head 36 feet. In service October 11, 1941.

*Turbines*—Two 4,950 hp S. Morgan Smith-Inglis, fixed blade propeller type, vertical shaft, 200 rpm. Total capacity, 9,900 hp.

*Generators*—Two 4,500 kva Canadian Westinghouse Company, 60 cycle, 6,600 volt, direct connected to turbines. Total capacity, 9,000 kva.

*Exciters*—Two 70 kw, 125 volts, main exciters direct-connected; two 4 kw, 125 volt pilot exciters direct-connected to main exciters, Canadian Westinghouse Company.

*Transformers*—One bank = three 3,000 kva Canadian General Electric Company, single-phase, 6.6 to 22 kv to operate 38 kv star connected. Total capacity, 9,000 kva.

### Ragged Rapids Generating Station

Situated on the Muskoka river, locally known as the Musquash river, about five miles below Bala, with concrete regulating dam on the Moon river. Development completed and first unit came into service October 18, 1938, and second unit November 7, 1938. Operating head, 38 ft.

*Turbines*—Two 5,200 hp S. Morgan Smith-Inglis Company, Kaplan type, vertical shaft, 200 rpm. Total capacity, 10,400 hp.

*Generators*—Two 4,500 kva Canadian Westinghouse Company, 60 cycles, 6,600 volt, direct connected to turbines. Total capacity, 9,000 kva.

*Exciters*—Two 70 kw, 125-volt, direct connected to generators.

*Transformers*—One bank = three 3,000 kva Hackbridge Transformer Company of Canada, single-phase, 6.6 to 22 kv to operate at 38 kv star connected. Total capacity, 9,000 kva.

### Bala Generating Station No. 1

Situated in the town of Bala, on Muskoka river. Formerly property of Bala Electric Light and Power Company. In operation 1917. Purchased by Commission in 1929. Water from Muskoka lake conveyed through canal to head works at power house. Operating head about 19 ft.

*Turbines*—Two 160 hp William Hamilton, Francis type, horizontal shaft. Total capacity, 320 hp.

*Generators*—One 125 kva, 140 rpm, one 150 kva, 300 rpm, Canadian General Electric, 3-phase, 60-cycles, 2,300 volts belt driven from turbines. Total capacity, 275 kva.

*Exciters*—One 5 kw Canadian General Electric Company; one 12.5 kw Canadian Westinghouse Company, 125 volts, belt driven from main units.

### Bala Generating Station No. 2

Situated in the town of Bala, on Muskoka river, a short distance from Bala Station No. 1, and remote controlled from that point. Formerly property of Bala Electric Light and Power Company. In operation 1924. Purchased by Commission in 1929. Water from Muskoka lake conveyed to plant through short flume to head works at power house. Operating head about 19 ft.

*Turbine*—One 400 hp William Hamilton, propeller type, vertical shaft, 277 rpm.

*Generator*—One 312.5 kva Canadian General Electric, 3-phase, 60-cycles, 2,300 volts, direct connected to turbine. Total capacity, 312.5 kva.

*Exciter*—One 8 kw Canadian General Electric Company, 125 volts, direct connected to main unit.

### South Falls Generating Station

Situated at South Falls, on South Muskoka river. Purchased from the municipality of Gravenhurst on November 1, 1915. Remodelled and enlarged in 1916 and again in 1924. Water conveyed from intake by 3 wood-stave pipe lines. Average operating head, 107 ft.

*Turbines*—One 1,000 hp William Hamilton, 720 rpm; two 2,200 hp William Kennedy, 514 rpm, Francis type, all horizontal shaft. Total capacity, 5,400 hp.

*Generators*—One 750 kva Canadian General Electric Company; two 2,000 kva Bruce Peebles, 3-phase, 60-cycles, 6,600 volts direct connected to turbine. Total capacity, 4,750 kva.

*Exciters*—Two 18 kw Bruce Peebles; one 12 kw Canadian General Electric Company direct connected to main generators; one 20 kw Canadian General Electric Company, motor driven, 125 volts.

*Transformers*—Two banks = six 1,200 kva, 6.6 to 38 kv; one bank = three 400 kva, 6.6 to 22 kv Canadian General Electric Company. Total capacity, 8,400 kva.

### Hanna Chute Generating Station

Situated at Hanna Chute, on the South Muskoka river, about half a mile up stream from South Falls plant, and remote controlled from that point. Constructed by Commission. In operation, October, 1926. Power fed at generator voltage to South Falls step-up transformers. Power house and intake integral with dam. Average operating head, 30 ft.

*Turbine*—One 1,550 hp Dominion Engineering Works, propeller type, vertical shaft, 225 rpm.

*Generator*—One 1,400 kva Swedish General Electric Company, 3-phase, 60 cycles, 6,600 volts, with thrust bearing, direct connected to turbine.

*Exciters*—One 23 kw direct connected to generator.

### Trethewey Falls Generating Station

Situated at Trethewey Falls, on South Muskoka river, about  $2\frac{1}{4}$  miles up stream from South Falls plant, and remote controlled from that point. Constructed by Commission. In operation September, 1929. Power fed at generator voltage to South Falls step-up transformers. Power house and intake integral with dam. Average operating head, 35 ft.

*Turbine*—One 2,300 hp S. Morgan Smith-Inglis, propeller type, vertical shaft, 257 rpm.

*Generator*—One 2,200 kva Swedish General Electric Company, 3-phase, 60-cycles, 6,600 volts, with spring type thrust bearing, direct connected to turbine.

*Exciters*—One 24 kw direct connected to generator.

### Big Chute Generating Station

Situated at Big Chute, on the Severn river. Formerly the property of the Simcoe Light and Power Company. In operation, 1909. Purchased by the Commission in July, 1914. Water conveyed to forebay by canal and thence to power house by two steel penstocks. Average operating head, 56 ft.

*Turbines*—Three 1,100 hp William Hamilton; one 2,300 hp Wellman-Seaver-Morgan, Francis type, horizontal shaft, 300 rpm. Total capacity, 5,600 hp.

*Auxiliary Turbines*—Two 150 hp William Hamilton, Francis type.

*Generators*—Three 900 kva Canadian Westinghouse Company; one 1,600 kva Canadian General Electric Company, 3-phase, 60-cycles, 2,200 volts, direct connected to turbines. Total capacity, 4,300 kva.

*Exciters*—Two 100 kw Canadian Westinghouse, 125 volts, turbine driven.

*Transformers*—Two banks = six 600 kva Canadian Westinghouse Company, 2.2 to 22 kv. Total capacity, 3,600 kva.

### Wasdells Falls Generating Station

Situated at Wasdells Falls, on the Severn river. Constructed by Commission. In operation, October, 1914. Power house and intake integral with dam. Average operating head, 12 ft.

*Turbines*—Two 600 hp Boving, Francis type, vertical shaft, 90 rpm. Total capacity, 1,200 hp.

*Auxiliary Turbine*—One 55 hp Boving, Francis type.

*Generators*—Two 400 kva Swedish General Electric Company, 3-phase, 60-cycle, 2,300 volts, direct connected to turbines. Total capacity, 800 kva.

*Exciters*—One 20 kw, turbine driven, one 30 kw, motor driven, Swedish General Electric Company, 125 volts.

*Transformers*—Two banks = six 150 kva Canadian Westinghouse Company, single-phase, 2.3 to 22 kv. Total capacity, 900 kva.

### Eugenia Falls Generating Station

Situated at Eugenia Falls, on the Beaver river. Power rights purchased by Commission from Georgian Bay Power Company in 1914. Plant installed by Commission. In operation in November, 1915. Water is conveyed to plant through canal, two wood stave pipe lines and two steel penstocks, each provided with surge tank. Average operating head, 550 ft.

*Turbines*—One 4,000 hp Allis-Chalmers, 720 rpm; two 2,250 hp Escher Wyss, Francis type, 900 rpm, all horizontal shaft. Total capacity, 8,500 hp.

*Generators*—One 2,820 kva, two 1,410 kva Canadian Westinghouse, 3-phase, 60-cycles, 4,000 volts, direct connected to turbine. Total capacity, 5,640 kva.

*Exciters*—One 40 kw, two 30 kw Canadian Westinghouse direct connected to generators.

*Transformers*—Two Banks=six 900 kva, Canadian Westinghouse Company, 4 to 22 kv; one auto-transformer=3,000 kva Canadian General Electric Company, three phase, 22 to 38 kv. Total capacity, 8,400 kva.

### Walkerton Generating Station

Situated on Saugeen river, about two miles above the town of Walkerton. Formerly owned by Foshay interests. In operation, 1894. Purchased by Commission, 1930. Water conveyed through canal to head works at power house. Operating head about 12 ft.

*Turbines*—One 275 hp William Kennedy; one 300 hp Boving, Francis type, both vertical shaft, 120 rpm. Total capacity, 575 hp.

*Generators*—One 150 kva, one 200 kva Swedish General Electric Company, 3-phase, 60 cycles, 2,300 volts, direct connected to turbines. Total capacity, 350 kva.

*Exciters*—One 25 kw Canadian Westinghouse Company, motor driven; one 12 kw, turbine driven, one 20 kw, belt driven from main unit, Swedish General Electric Company, 125 volts.

*Transformers*—One 2,000 kva Commonwealth Electric Corporation, 3-phase, 2.3 to 38 kv. Total capacity, 2,000 kva.

### Hanover Generating Station

Situated in the town of Hanover, on Saugeen river. Formerly owned by Canada Cement Company. In operation about 1900. Purchased by Commission, February, 1929. Water conveyed through canal to head works at power house. Operating head, 17 to 18 ft.

*Turbines*—Two 175 hp William Hamilton, Francis type, horizontal shaft. Total capacity, 350 hp.

*Generators*—Two 150 kva Canadian General Electric Company, 3-phase, 60-cycles, 4,000 volts, direct connected to turbines. Total capacity, 300 kva.

*Exciter*—One 13 kw Canadian General Electric Company, 125 volts.

### Hanover Frequency-Changer Station

Situated in the town of Hanover, installed by the Commission. First unit placed in service 1930. Second unit in June 1940. Power is transmitted at 25 cycles over 110 kv circuit from Kitchener and voltage is stepped down through one 8,000 kva, 3-phase transformer and nine 750 kva units then through two frequency-changers; the 60-cycle power is stepped up to 38 kv through six 2,500 kva single-phase transformers. Each frequency-changer unit comprises motor, generator and exciter mounted on common shaft.

*Motors*—1st unit—one 5,400 kva, 3-phase, 25-cycle, 300 rpm, 6,600 volt General Electric Company. 2nd unit—one 5,880 kva, 3-phase, 25-cycle, 300 rpm, 13,200 volts, Westinghouse Electric and Manufacturing Company.

*Generators*—1st unit—one 6,250 kva, 3-phase, 60-cycle, 4,400 volts, General Electric Company. 2nd unit—one 6,750 kva, 3-phase, 60-cycle, 4,000 volts, Westinghouse Electric and Manufacturing Company. Total capacity, 13,000 kva.

*Exciters*—1st unit—one 150 kw General Electric Company. 2nd unit—one 50 kw, 125 volt, one 85 kw, 125 volt Westinghouse Electric and Manufacturing Company.

*Transformers*—One bank = one 8,000 kva Canadian Westinghouse Company, 3-phase, 25-cycle, 110 to 13.2 kv; three banks=nine 750 kva General Electric Company, single-phase, 25-cycles, 110 to 6.6 kv; one bank = three 2,500 kva Canadian General Electric Company, single-phase, 4.4 to 38 kv; one bank = three 2,500 kva Canadian General Electric Company, single-phase, 4 to 38 kv; one bank = three 500 kva Bruce Peebles, single-phase, 4 to 44 kv; one auto-transformer = 3,000 kva Canadian General Electric Company, 3-phase, 38 to 22 kv. Total capacity, 34,250 kva.

### EASTERN ONTARIO DIVISION

**GENERAL**—This division serves that portion of the Province east of the area served by the Georgian Bay and Niagara divisions. It is a consolidation of what was formerly the Central Ontario and Trent system with the St. Lawrence, Rideau, Ottawa and Madawaska systems. Power is obtained from developments on the Trent, Madawaska and Mississippi rivers, supplemented with power from the frequency-changer station at Chats Falls development on the Ottawa river, and purchased power from the Gatineau river. The Gatineau power is obtained on contract over a 110 kv transmission line, owned by the Commission, which connects with the lines of the Gatineau Power Company at the Inter-provincial boundary near the west city limits of Ottawa, and to Chats Falls frequency-changer station, and extends to step-down stations at Smiths Falls, Kingston, Cornwall and Trenton, from which it is distributed to the respective districts. The line is tapped near the south-west limits of the city of Ottawa to connect with a step-down station which supplies its share of power to the municipality. Complete interconnection and paralleling of the various generating stations does not normally obtain, but interchange of power between different sections is possible.

The *Central Ontario district* is the most westerly district of the Eastern Ontario division of the Southern Ontario system. Power in this district is obtained from developments on the Trent river and its tributaries. The generators are connected through step-up transformers, and thus operate in parallel through one network of transmission lines. Power is also purchased from the municipality of Campbellford, and in emergencies from the Peterboro Hydraulic Power Company and the Canadian General Electric Company. Originally this area was served by subsidiary companies of the Electric Power Company, but by agreement, March 10, 1916, under the provisions of the Central Ontario Power Act of 1916, the Commission assumed control of the interests and properties of these companies. In addition to the generating and distributing systems these included two waterworks systems, three gas plants, and one pulp mill. The companies included in this agreement were: Auburn Power Company, Limited; Central Ontario Power Company, Limited; City Gas Company of Oshawa, Limited; Cobourg Utilities Corporation, Limited; Cobourg Gas, Light and Water Company; Eastern Power Company, Limited; Light, Heat and Power Company of Lindsay; Napanee Gas Company, Limited; Napanee Water and Electric Company; Northumberland Pulp Company, Limited; Peterboro Radial Railway Company; Port Hope Electric Light and Power Company; Seymour Power and Electric Company, Limited; Sidney Electric Power Company, Limited; Trenton Electric and Water Company, Limited; Tweed Electric Light and Power Company, Limited; Nipissing Power Company, and North Bay Light, Heat and Power Company, Limited; of these the last two are part of the Nipissing district, Northern Ontario Properties.

The *St. Lawrence district* is the most easterly district of the division. There are no developments owned by the Commission in this district, power being purchased from the Gatineau Power Company. It is delivered at 110 kv to the Commission's transformer station at Cornwall, where it is stepped down for transmission through the 44 kv network to the various municipalities.

The *Rideau district* comprises the area between the Central Ontario and the St. Lawrence districts. Power developed in the district is obtained from developments on the Mississippi river; 1,050 hp is also purchased from the Rideau Power Company.

The *Ottawa district* comprises a section of the municipality of Ottawa and adjacent territory. Power first delivered by Commission in July, 1907, subsequent to purchase by municipality, in 1905, from Consumers Electric Company, of distributing system. Three-phase, 60-cycle power is purchased from Ottawa and Hull Power and Manufacturing Company at 11 kv and delivered directly to the municipality.

The *Madawaska district* comprises municipalities in the lower Madawaska and Mississippi and neighbouring Ottawa river valleys. Original developments were made by M. J. O'Brien Company, Limited and its subsidiary, the Galetta Electric Power and Milling Company, Limited. The interests and properties of this company were taken over by the Commission and operation assumed May 31, 1929. Power is obtained from developments on the Madawaska and Mississippi rivers, the transmission voltage on the former being 33 kv, and on the latter 11 kv. The two networks are tied together through transformers at Arnprior transformer station.

**TRANSMISSION LINES**—110 kv = 443.37 miles, 44 kv = 629.44 miles, 33 kv = 101.36 miles, 26.4—6.6 kv = 88.12 miles.

**TRANSFORMER STATIONS**—Total capacity in 86 stations owned by the Commission = 404,592 kva as follows: 16—step-up 140,000 kva; 8—step-down 154,000 kva; and 62—distributing 110,592 kva.

### Sidney Generating Station

Situated at Dam No. 2, on Trent river. Formerly property of Electric Power Company. In operation 1911. Commission assumed control 1916. Power house and intake integral with dam. Average operating head, 18.5 ft.

*Turbines*—Four 1,400 hp Boving, Francis type, vertical shaft, 120 rpm. Total capacity, 5,600 hp.

*Auxiliary Turbine*—One 110 hp Boving, Francis type.

*Generators*—Four 937.5 kva Swedish General Electric Company, 3-phase, 60-cycles, 6,600 volts, direct connected to turbines. Total capacity, 3,750 kva.

*Exciters*—One 75 kw, turbine driven, one 75 kw, motor driven, Swedish General Electric Company, 125 volts.

*Transformers*—Three banks = three 3,000 kva Canadian Westinghouse Company, 3-phase, 6.6 to 44 kv. Total capacity, 9,000 kva.

### Frankford Generating Station

Situated at Dam No. 5, on Trent river. Formerly property of Electric Power Company. In operation 1913. Commission assumed control 1916. Power house and intake integral with dam. Average operating head, 17 ft.

*Turbines*—Four 1,200 hp Boving, Francis type, vertical shaft, 112.5 rpm. Total capacity, 4,800 hp.

*Auxiliary Turbine*—One 100 hp Boving, Francis type.

*Generators*—Four 812.5 kva Swedish General Electric Company, 3-phase, 60-cycles, 6,600 volts, direct connected to turbines. Total capacity, 3,250 kva.

*Exciters*—One 75 kw, turbine driven, one 75 kw, motor driven, Swedish General Electric Company, 125 volts.

*Transformers*—Power fed at generator voltage to step-up transformers at Sidney transformer station.

### Sills Island Generating Station

Situated on the Trent river at Frankford. Formerly property of the Quinte and Trent Valley Power Company. Commission assumed control in 1937. Operating head, 14 ft.

*Turbines*—Two 1,400 hp S. Morgan Smith-Inglis Company, propeller type, vertical shaft, 120 rpm. Total capacity, 2,800 hp.

*Generators*—One 1,200 kva Swedish General Electric Company, 60-cycle, 6,600 volts, 600 rpm, horizontal shaft, connected through 1-5 ratio gears to turbine. One 1,200 kva Canadian General Electric Company, 3-phase, 60-cycle, 6,600 volts, 120 rpm, direct connected to turbine. Total capacity, 2,400 kva.

*Exciters*—One 15 kw, 125 volts, direct connected to generator, Swedish General Electric Company; two 30 kw motor generators, Canadian General Electric Company.

*Transformers*—One 3,000 kva, 3-phase, 6.6 to 44 kv, Canadian General Electric Company.

### Meyersburg Generating Station

Situated at Dam No. 8, on Trent river, about four miles below Campbellford. Constructed by Commission. In operation October, 1924. Remote supervisory control from Ranney Falls plant, about three miles up-stream includes fifty-seven possible supervisory operations, and indications of operating conditions at plant. Power house and intake integral with dam. Average operating head, 32 ft.

*Turbines*—Three 2,200 hp Allis-Chalmers, Francis type, vertical shaft, 150 rpm. Total capacity, 6,600 hp.

*Generators*—Three 2,000 kva Swedish General Electric Company, 3-phase, 60-cycles, 6,600 volts, direct connected to turbines. Total capacity, 6,000 kva.

*Exciters*—Three 31 kw Swedish General Electric Company, 115 volts, direct connected to generators.

*Transformers*—Three banks = three 2,000 kva Packard Electric Company, 3-phase, 6.6 to 44 kv. Total capacity, 6,000 kva.

### Hague's Reach Generating Station

Situated at Dam No. 9 on Trent river, about  $2\frac{1}{4}$  miles below Campbellford. Constructed by Commission. In operation March, 1925. Remote supervisory control from Ranney Falls plant, with duplicate equipment to that at Meyersburg plant. Power house and intake integral with dam. Average operating head, 22.5 ft.

**Turbines**—Three 1,600 hp Allis-Chalmers, propeller type, vertical shaft, 180 rpm. Total capacity, 4,800 hp.

**Generators**—Three 1,400 kva Canadian Westinghouse Company, 3-phase, 60-cycles, 6,600 volts, direct connected to turbines. Total capacity, 4,200 kva.

**Exciters**—Three 30 kw Canadian Westinghouse Company, 125 volts, direct connected to generators.

**Transformers**—Three banks = three 1,350 kva Moloney Electric Company, 3-phase, 6.6 to 44 kv. Total capacity, 4,050 kva.

### Ranney Falls Generating Station

Situated at Dam No. 10 on Trent river, about one mile below Campbellford. Constructed by Commission. In operation August, 1922. Power house and intake integral with dam. Average operating head, 47 ft.

**Turbines**—Two 5,000 hp Boving, Francis type, vertical shaft, 120 rpm. Total capacity, 10,000 hp.

**Generators**—Two 4,500 kva Canadian General Electric Company, 3-phase, 60-cycles, 6,600 volts, direct connected to turbines. Total capacity, 9,000 kva.

**Exciters**—Three 50 kw Canadian General Electric Company, 125 volts, two direct connected to generators, one motor driven.

**Transformers**—Two banks = two 4,500 kva Canadian General Electric Company, 3-phase, 6.6 to 44 kv. Total capacity, 9,000 kva.

### Campbellford—Ranney Falls Generating Station, Unit No. 3

Situated on the Trent river, two miles downstream from Campbellford. This unit was formerly a separate development near the main plant, drawing its water supply from the same forebay by a canal and pipe line. Formerly property of the Quinte and Trent Valley Power Company. Commission assumed control in 1937. Operating head, 47 ft.

**Turbine**—One 1,000 hp William Hamilton, Francis type, vertical shaft, 360 rpm.

**Generator**—One 900 kva Swedish General Electric Company, 3-phase, 60-cycle, 600-volt, direct connected to turbine.

**Exciter**—8 kw, Swedish General Electric Company, 125-volt, direct connected to generator.

**Transformer**—One 750 kva Canadian General Electric Company, 3-phase, .6 to 44 kv.

### Seymour Generating Station

Situated at Dam No. 11 on Trent river, about  $1\frac{1}{2}$  miles up stream from Campbellford. Formerly property of Electric Power Company. In operation 1910. Commission assumed control, 1916. Power house and intake integral with dam. Average operating head, 23 ft.

**Turbines**—Five 1,100 hp William Kennedy, Francis type, vertical shaft, 150 rpm. Total capacity, 5,500 hp.

**Auxiliary Turbine**—One 110 hp William Kennedy, Francis type.

**Generators**—Five 750 kva Canadian General Electric Company, 3-phase, 60-cycles, 2,400 volts, direct connected to turbines. Total capacity, 3,750 kva.

**Exciters**—One 60 kw, turbine driven, one 75 kw, motor driven, Canadian General Electric Company, 125 volts.

**Transformers**—Two banks = 3,000 kva Canadian Westinghouse Company, 3-phase, 2.4 to 44 kv. Total capacity, 6,000 kva.

### Heely Falls Generating Station

Situated at Dam No. 14 on Trent river, about five miles up stream from Campbellford. Formerly property of Electric Power Company. In operation 1913. Commission assumed control 1916. Water conveyed from head works through three steel penstocks to turbines. Average operating head, 74 ft.

*Turbines*—Two 5,600 hp Escher Wyss; one 5,600 hp Wellman-Seaver-Morgan, Francis type, double runner, all horizontal shaft, 240 rpm. Total capacity, 16,800 hp.

*Auxiliary Turbine*—One 300 hp Escher Wyss, Francis type.

*Generators*—Two 3,750 kva Canadian General Electric Company; one 3,750 kva Swedish General Electric Company, 3-phase, 60-cycles, 6,600 volts, direct connected to turbines. Total capacity, 11,250 kva.

*Exciters*—Two 160 kw Canadian General Electric Company, 125 volts, one turbine and one motor driven.

*Transformers*—Three banks = three 3,750 kva Canadian Westinghouse Company, 3-phase, 6.6 to 44 kv. Total capacity, 11,250 kva.

### Auburn Generating Station

Situated at Dam No. 18 on Otonabee river, near the city of Peterboro. Formerly property of Electric Power Company. In operation 1911. Commission assumed control 1916. Power house and intake integral with dam. Average operating head, 18.5 ft.

*Turbines*—Three 960 hp William Hamilton, Francis type, horizontal shaft, 150 rpm. Total capacity, 2,880 hp.

*Auxiliary Turbine*—One 135 hp William Hamilton, Francis type.

*Generators*—Three 625 kva Canadian General Electric Company, 3-phase, 60-cycles, two 6,600 volts, one 2,400 volts, direct connected to turbines. Total capacity, 1,874 kva.

*Exciters*—One 135 kw, turbine driven, one 90 kw, motor driven, Swedish General Electric Company, 125 volts.

*Transformers*—One bank = three 200 kva Canadian General Electric Company, single-phase, 2.4 to 6.6 kv. Total capacity, 600 kva. Fed at 6.6 kv to Auburn transformer station, where it is stepped up through two 1,875 kva Canadian General Electric Company, 3-phase units, 6.6 to 44 kv.

### Lakefield Generating Station

Situated on Otonabee river at village of Lakefield. Formerly property of Canada Cement Company. Commission assumed control in 1936. Operating head, 16 ft.

*Turbine*—One 2,300 hp Canadian Allis-Chalmers, propeller type, vertical shaft, 112.5 rpm.

*Generator*—One 2,500 kva Swedish General Electric Company, 3-phase, 60-cycle, 2,400-volt, direct connected to turbine.

*Exciter*—38 kw Swedish General Electric Company, 125-volt, direct connected to generator.

*Transformers*—Two 1,500 kva, 3-phase, 2.4 to 44 kv Packard Electric Company; two 2,000 kva, 3-phase, 10.5 to 2.4 kv, Canadian General Electric Company. Total capacity, 7,000 kva.

### Fenelon Falls Generating Station

Situated at Dam No. 30, on the Sturgeon river at Fenelon Falls. Formerly property of Electric Power Company. In operation 1899. Commission assumed control 1916. Power house and intake integral with dam. Average operating head, 22.5 ft.

*Turbines*—Two 500 hp William Hamilton, Francis type, horizontal shaft, 200 rpm. Total capacity, 1,000 hp.

*Generators*—Two 400 kva Canadian General Electric Company, 3-phase, 60-cycles, 600 volts, direct connected to turbines. Total capacity, 800 kva.

*Exciter*—One 20 kw Canadian General Electric Company, 125 volts, direct turbo drive.

*Transformers*—Two banks = Six 135 kva and one = 750 kva three-phase Canadian General Electric Company. Total capacity, 1,560 kva.

### Galette Generating Station

Situated on Mississippi river at Hubbells Falls, about four miles from Arnprior. Formerly property of Galette Power and Milling Company. In operation 1907. Commission assumed control May, 1929. Power house and head works integral with dam. Average operating head, 22 ft.

*Turbines*—One 700 hp William Kennedy; one 700 hp Boving, Francis type, horizontal shaft, 240 rpm. Total capacity, 1,400 hp.

*Auxiliary Turbines*—Two 50 hp William Kennedy, Francis type.

*Generators*—Two 400 kva Canadian Westinghouse Company, 3-phase, 60-cycles, 2,300 volts, horizontal shaft, direct connected to turbines. Total capacity, 800 kva.

*Exciters*—Two 30 kw Canadian Westinghouse Company, 125 volts, turbine driven.

*Transformers*—One bank = three 400 kva Packard Electric Company, 2.3 to 33 kv, two 125 kva, two 60 kva Canadian Westinghouse Company single-phase, 2.3 to 11 kv. Total capacity, 1,570 kva.

### Carleton Place Generating Station

Situated on Mississippi river at Carleton Place. Formerly property of H. Brown and Sons. In operation 1910. Purchased by Commission, May, 1919. Operation discontinued, June, 1920. Renovated and operated as standby since that date. Average operating head, 10.5 ft.

*Turbines*—Three 283 hp William Hamilton, Francis type, vertical shaft. Total capacity, 849 hp.

*Generators*—One 150 kva, one 250 kva Canadian General Electric Company, 3-phase, 60 cycles, 2,300 volts, direct connected to turbines. Total capacity, 400 kva.

*Exciters*—Two 7 kw Canadian General Electric Company, belt driven.

*Transformers*—Power fed at generator voltage to low voltage bus in Carleton Place distributing station.

### High Falls Generating Station

Situated on the Mississippi river, at High Falls, immediately above Dalhousie lake. Constructed by Commission. In operation May, 1920. Water conveyed from head works through wood stave pipe to turbines. Average operating head, 78 ft.

*Turbines*—Three 1,240 hp William Hamilton, Francis type, horizontal shaft, 300 rpm. Total capacity, 3,720 hp.

*Generators*—Four 350 kva, two per.turbine, one 875 kva General Electric Company, 3-phase, 60-cycles, 4,400 volts, direct connected to turbines. Total capacity, 2,275 kva.

*Exciters*—Three 25 kw General Electric Company, belt driven.

*Transformers*—Three banks = three 750 kva Packard Electric Company, 3-phase, 4.16 to 25.4 kv. Total capacity, 2,250 kva.

### Calabogie Generating Station

Situated on Madawaska river, at lower end of Calabogie lake. Formerly property of M. J. O'Brien, Limited. In operation 1917. Commission assumed control May, 1929. Power house and head works integral with dam. Average operating head, 30 ft.

*Turbines*—Two 3,000 hp Allis-Chalmers, Francis type, horizontal shaft, 164 rpm. Total capacity, 6,000 hp.

*Auxiliary Turbine*—One 200 hp Allis-Chalmers, Francis type.

*Generators*—Two 2,500 kva Allis-Chalmers, 3-phase, 60-cycles, 6,600 volts, direct connected to turbines. Total capacity, 5,000 kva.

*Exciters*—Two 120 kw Allis-Chalmers, 125 volts, one belted to main unit, one turbine driven.

*Transformers*—One bank = three 2,000 kva Westinghouse Electric and Manufacturing Company, single-phase, 6.6 to 33 kv. Total capacity, 6,000 kva.

### Barrett Chute Generating Station

Situated on the Madawaska river about seven miles South-west of Calabogie. Constructed by Commission and placed in service August 1942. Gross head 154 feet.

**Turbines**—Two 28,000 hp Canadian Allis-Chalmers, Francis type, vertical shaft, 163.6 rpm. Total capacity, 56,000 hp.

**Generators**—Two 24,000 kva Canadian General Electric Company, 3-phase, 60-cycles, 13,200 volts, direct connected to turbines. Total capacity, 48,000 kva.

**Exciters**—Two 145 kw, 250 volts, and two 7 kw, 250 volts, direct connected to generators, Canadian General Electric Company.

**Transformers**—Two banks = 24,000 kva English Electric Company, 3-phase, 13.2 to 110 kv. Total capacity, 48,000 kva.

### THUNDER BAY SYSTEM

**GENERAL**—This system serves that portion of the district of Thunder Bay adjacent to lake Superior, and includes the lake-head cities of Port Arthur and Fort William. Power is obtained from developments on the Nipigon river. The system also supplies power to the Steep Rock iron mines and the Long Lac mining area.

**TRANSMISSION LINES**—110 kv = 260.33 miles, 44 kv = 113.81 miles, 22 kv = 8.05 miles, 12 kv = 1.45 miles.

**TRANSFORMER STATIONS**—Total capacity in 11 stations owned by the Commission = 206,050 kva as follows: 2—step-up 125,000 kva; 9—step-down 81,050 kva.

### Alexander Generating Station

Situated on Nipigon river, about 1½ miles below Cameron Falls station, and remote controlled from that point. Constructed by Commission. First unit in operation October, 1930; second unit, December, 1930; third unit, March, 1931; fourth unit being installed, 1945. Water conveyed through short intake canal to head works at power house. Head pond created by large earth dam, dykes and concrete sections. Normal operating head, 60 ft.

**Turbines**—Three 18,000 hp S. Morgan Smith-Inglis, Francis type, vertical shaft, 100 rpm. Total capacity, 54,000 hp.

**Generators**—Three 15,000 kva Canadian General Electric Company, 3-phase, 60-cycles, 12,000 volts, direct connected to turbines. Total capacity, 45,000 kva.

**Exciters**—Three 165 kw Canadian General Electric Company, 250 volts, direct connected to main units.

**Transformers**—Three banks = three 15,000 kva Canadian General Electric Company, 3-phase, 12 to 110 kv. Total capacity, 45,000 kva.

### Cameron Falls Generating Station

Situated at Cameron Falls, on the Nipigon river. Constructed by the Commission, and first unit placed in operation in December, 1920. Power house and head works integral with dam. Water conveyed from head works to turbine through reinforced concrete intake pipes, three for each unit, approximately 50 ft. in length and 13 ft. by 10 ft. in cross section. Normal operating head, 72 ft.

**Turbines**—Two 12,500 hp I. P. Morris; two 12,500 hp Allis-Chalmers; two 12,500 hp Canadian Vickers, all Francis type, vertical shaft, 120 rpm. Total capacity, 75,000 hp.

**Generators**—Two 10,600 kva Canadian Westinghouse Company; four 10,600 kva Canadian General Electric Company, 3-phase, 60-cycles, 12,000 volts, direct connected to turbines. Total capacity, 63,600 kva.

**Exciters**—Six 125 kw direct connected to main generators; one 125 kw, motor driven.

**Transformers**—Three banks = nine 8,000 kva Canadian General Electric Company, single-phase, 12 to 63.5 kv to operate 110 kv, star connected. One bank = three 1,500 kva Canadian Westinghouse Company, single-phase, 12 to 44 kv. Total capacity, 76,500 kva.

### NORTHERN ONTARIO PROPERTIES

**GENERAL**—Held and operated by The Hydro-Electric Power Commission in trust for the Province of Ontario. Five independant districts serve mining areas in northern Ontario.

The *Abitibi district* comprises the area that can be served from a 132 kv transmission line extending from the Abitibi Canyon power development to Sudbury. Power at 25 cycles is transmitted from developments on the Abitibi river to Northern Ontario Mining districts and the International Nickel Company.

The *Sudbury district* serves the territory adjacent to the city of Sudbury, including the mining area known as Sudbury Basin. Power is obtained from developments on the Wanapitei river. Power rights and plant formerly owned by the Wahnapitae Power Company. Control assumed by Commission April, 1930.

The *Nipissing district* includes municipalities lying immediately to the east of lake Nipissing. Power is obtained from developments on the South river. Power rights and plant formerly owned by Nipissing Power Company, controlled by Electric Power Company, Limited. Commission assumed control March, 1916, when the latter Company and all its subsidiaries were acquired by the Ontario Government.

The *Patricia district* combines the Patricia and St. Joseph districts. The former was established to supply power to the Red Lake mining district. Power is obtained from a development on the English river. The latter was established to supply power to Central Patricia and Pickle Crow Mining Companies. Power is obtained from a development on the Albany river.

The *Rainy River district* serves the Steep Rock iron mines by a transmission line 120 miles long, west of Port Arthur. Power is obtained from developments on the Nipigon river of the Thunder Bay system. See above.

**TRANSMISSION LINES**—132 and 110 kv = 718.97 miles, 44 kv = 343.59 miles, 26.4—12.3 kv = 308.84 miles.

**TRANSFORMER STATIONS**—Total capacity in 39 stations operated by the Commission = 432,775 kva as follows: 10—step-up 249,800 kva; 29—step-down 182,975 kva.

#### ABITIBI DISTRICT

##### Abitibi Canyon Generating Station

Situated on the Abitibi river approximately seventy miles north of Cochrane. Formerly property of the Ontario Power Service Corporation. Commission assumed control April, 1933, and completed installation of two generators which were placed in operation in May and December, 1933; one unit installed in 1935; final two units installed in 1936. Unit No. 3 was dismantled and re-installed at DeCew Falls, 25-cycle plant. Water conveyed from head works to turbines through steel-plate penstocks, 18 ft. in diameter. Normal operating head, 237 ft.

**Turbines**—Four 66,000 hp Canadian Allis-Chalmers, Francis type, vertical shaft, 150 rpm. Total capacity, 264,000 hp.

**Auxiliary Turbine**—One 600 hp Canadian Allis-Chalmers, Francis type, 750 rpm.

**Generators**—Four 48,500 kva Canadian General Electric Company, 3-phase, 25-cycle, 13,800 volts, direct connected to turbines. Total capacity, 194,000 kva.

**Auxiliary Generator**—One 500 kva Canadian General Electric Company.

**Exciters**—Four 180 kw, 250 volt, direct connected to generators.

**Pilot Exciters**—Four 7 kw, 250 volts, direct connected to exciters.

**Transformers**—Four banks = twelve 16,000 kva Canadian General Electric Company, single-phase, 13.8 to 76.2 kv to operate at 132 kv star connected. Total capacity, 192,000 kva.

## SUDBURY DISTRICT

**McVittie Generating Station**

Situated on Wanapitei river, approximately 26 miles from Sudbury. Formerly property of Wahnapitae Power Company. In operation 1912. Commission assumed control April, 1930. Water conveyed through canal to head works, steel penstocks to turbines. Average operating head, 38 ft.

*Turbines*—Two 1,800 hp William Kennedy, Francis type, horizontal shaft, 257 rpm. Total capacity, 3,600 hp.

*Auxiliary Turbine*—One 75 hp William Kennedy, Francis type.

*Generators*—Two 1,250 kva Canadian General Electric Company, 3-phase, 60-cycles, 2,300 volts, direct connected to turbines. Total capacity, 2,500 kva.

*Exciters*—Two 75 kw Canadian General Electric Company, one direct connected to auxiliary turbine, one motor driven.

*Transformers*—One bank = three 625 kva Canadian General Electric Company, single-phase, 2.3 to 23 kv. Total capacity, 1,875 kva.

**Coniston Generating Station**

Situated on Wanapitei river, approximately ten miles east of Sudbury. Formerly property of Wahnapitae Power Company. In operation 1905. Commission assumed control April, 1930. Water conveyed through canal to head works, steel penstocks to turbines. Average operating head, 53 ft.

*Turbines*—One 1,200 hp, one 1,600 hp, each 300 rpm, Jenckes; one 3,500 hp, 257 rpm, Allis-Chalmers, all Francis type, horizontal shaft. Total capacity, 6,300 hp.

*Auxiliary Turbines*—One 35 hp, one 70 hp Jenckes, Francis type. Total capacity, 105 hp.

*Generators*—One 800 kva, one 1,250 kva, one 2,500 kva Canadian General Electric Company, 3-phase, 60-cycles, 2,300 volts, direct connected to turbines. Total capacity, 4,550 kva.

*Exciters*—One 25 kw, one 55 kw, turbine driven, one 100 kw, motor driven, Canadian General Electric Company.

*Transformers*—Two banks = six 800 kva Canadian General Electric Company, single-phase, 2.3 to 23 kv; one 8,000 kva, three-phase, 24 to 110 kv, English Electric Company. Total capacity, 12,800 kva.

**Stinson Generating Station**

Situated on Wanapitei river, approximately eight miles up stream from Coniston generating station. Formerly property of Wahnapitae Power Company. In operation 1925. Commission assumed control April, 1930. Water conveyed through canal to head works, steel penstocks to turbines. Average operating head, 52.5 ft.

*Turbines*—Two 3,500 hp Allis-Chalmers, Francis type, horizontal shaft, 240 rpm. Total capacity, 7,000 hp.

*Auxiliary Turbine*—One 150 hp Allis-Chalmers, Francis type.

*Generators*—Two 2,500 kva Canadian General Electric Company, 3-phase, 60-cycles, 2,300 volts, direct connected to turbines. Total capacity, 5,000 kva.

*Exciters*—One 100 kva turbine driven, one 100 kva, motor driven, Canadian General Electric Company, 125 volts.

*Transformers*—One bank = three 1,667 kva Canadian General Electric Company, single-phase, 2.3 to 23 kv. Total capacity, 5,000 kva.

**Crystal Falls Generating Station**

Situated on the Sturgeon river about ten miles up stream and north of the town of Sturgeon Falls. Formerly property of the Abitibi Power and Paper Company. Commission assumed control in August, 1937. Power house integral part of dam. Normal operating head, 33 ft.

*Turbines*—Four 2,600 hp I.P. Morris, Francis type, vertical shaft, 138.5 rpm. Total capacity, 10,400 hp.

*Generators*—Four 2,125 kva Westinghouse Electric Company generators, 3-phase, 60-cycle, 2,300 volt, direct connected to turbines.

*Exciters*—One 68 kw, 125 volt, motor driven, Canadian Westinghouse Company.

*Transformers*—One bank = three 3,000 kva Canadian Westinghouse Company, single-phase, 2.3 to 22 kv; one bank = one 8,000 kva English Electric Company, 3-phase, 24 to 110 kv. Total capacity, 17,000 kva.

**NIPISSING DISTRICT****Nipissing Generating Station**

Situated on the South river, about 1½ miles from the village of Nipissing. Formerly the property of Nipissing Power Company. Control assumed by Commission March, 1916. Water conveyed to plant through canal, wood stave pipe line and steel penstock provided with surge tank. Average operating head, 90 ft.

*Turbines*—Two 1,250 hp Jenckes Machine Company, Francis type, horizontal shaft, 450 rpm. Total capacity, 2,500 hp.

*Generators*—One 1,400 kva Canadian Westinghouse Company; one 1,250 kva Swedish General Electric Company, 3-phase, 60-cycles, 2,300 volts, direct connected to turbines. Total capacity, 2,650 kva.

*Exciters*—One 17.5 kw Swedish General Electric Company, 115 volts; one 21 kw Canadian Westinghouse Company, 125 volts, direct connected to main generators; one 37½ kw motor driven.

*Transformers*—One bank = three 900 kva Packard Electric Company, single phase, 2.3 to 22 kv. Total capacity, 2,700 kva.

**Bingham Chute Generating Station**

Situated on South river, about two miles from Powassan. Constructed by Commission. In operation December, 1923. Water conveyed to plant through wood stave pipe line. Average operating head, 47 ft.

*Turbines*—Two 650 hp William Kennedy, Francis type, horizontal shaft, 450 rpm. Total capacity, 1,300 hp.

*Generators*—Two 450 kva Canadian Westinghouse Company, 3-phase, 60-cycles, 2,200 volts, direct connected to turbines. Total capacity, 900 kva.

*Exciters*—Two 12.5 kw Canadian Westinghouse Company, direct connected to generators.

*Transformers*—One bank = three 300 kva Canadian Westinghouse Company, single-phase, 2.2 to 22 kv. Total capacity, 900 kva.

**Elliott Chute Generating Station**

Situated on South river, approximately 1½ miles up stream from Bingham Chute plant. Constructed by Commission. In operation October, 1929. Semi-automatic. Remote controlled from Bingham Chute station. Water conveyed to plant through wood stave pipe line. Average operating head, 39 ft.

*Turbine*—One 1,800 hp S. Morgan Smith-Inglis Company, propeller type, vertical shaft, 327 rpm.

*Generator*—One 1,800 kva Swedish General Electric Company, 3-phase, 60-cycles, 2,300 volts, direct connected to turbine.

*Exciter*—One 22 kw Swedish General Electric Company, direct connected, 125 volts.

*Transformers*—One bank = three 650 kva English Electric Company, single-phase, 2.3 to 23 kv. Total capacity, 1,950 kva.

**PATRICIA DISTRICT****Ear Falls Generating Station**

Situated at Ear Falls on the English river. Constructed by Commission. In operation December, 1929. Water conveyed from Lac Seul conservation dam to power house through four wood stave pipes and two concrete conduits. Normal operating head, 36 ft.

*Turbines*—One 5,000 hp, propeller type, 180 rpm, Dominion Engineering Works; one 5,000 hp, propeller type, 180 rpm, and one 7,500 hp, Kaplan type, 150 rpm, Morgan-Smith-Inglis; all vertical shaft. Total capacity, 17,500 hp.

*Generators*—One 5,000 kva, one 6,000 kva Canadian Westinghouse Company; one 4,500 kva Ateliers de Construction Oerlikon, 3-phase, 60-cycles, 6,600 volts, all direct connected to turbines. Total capacity, 15,500 kva.

*Exciters*—One 65 kw, one 75 kw, and one 5 kw pilot, 125 volt, direct connected, Canadian Westinghouse Company; one 48 kw, 125 volt, Ateliers de Construction Oerlikon, direct connected.

*Transformers*—One bank = three 750 kva, single-phase, English Electric Company; one bank = three 750 kva, single-phase, Commonwealth Electric Corporation; one bank = three 1,500 kva, single-phase, Moloney Electric Company; one bank = three 2,000 kva, single-phase, Packard Electric Company. Total capacity, 15,000 kva.

**Rat Rapids Generating Station**

Situated at Rat Rapids at the outlet of lake St. Joseph, on the Albany river. Constructed by Commission. In operation March, 1935. Concrete turbine chamber and generating room substructure. Rock filled timber crib dams. Average operating head, 14.5 ft.

*Turbine*—One 1,750 hp Dominion Engineering Works, propeller type, vertical shaft, 128.5 rpm.

*Generator*—One 1,500 kva Canadian General Electric Company, 3-phase, 60-cycles, 2,300 volts, direct connected to turbine.

*Exciters*—One 32 kw and one 2.5 kw pilot exciter direct-connected, Canadian General Electric Company.

*Transformers*—One bank = three 333 kva Packard Electric Company, 6.6 to 22 kv, single-phase; one bank = three 500 kva Packard Electric Company, 2.3 to 22 kv, single-phase. Total capacity, 2,500 kva.

# INDEX

## A

Abitibi Canyon Gen. Sta.—Power Generated.....	16
Description of.....	347
Abitibi District — Generating Plants, Power Generated.....	16
Operation of.....	29
Diagram of Peak Loads.....	30
Loads of Municipalities.....	34
Fixed Assets.....	168
Abitibi Power and Paper Co.—Power Purchased.....	17
Accident Prevention.....	xviii
Accidents.....	93
Accounts, Explanatory Statement respecting.....	95
Accounts Receivable.....	118
Acton—Load in Horsepower.....	22
Cost of Power.....	122
Credit or Charge Account.....	138
Sinking Fund.....	154
*Municipal Accounts:	
A. Balance Sheet.....	184
B. Detailed Operating Report.....	236
*Statements:	
C. Street Lighting Installation	
(See Page 288)	
D. Consumers, Consumption, Bills, etc.298	
E. Cost of Power and Rates for Service.310	
Acts and Amendments.....	11, 327
Agincourt—Load in Horsepower.....	22
Cost of Power.....	122
Credit or Charge Account.....	138
Sinking Fund.....	154
Municipal Accounts.....	A, 184; B, 236
Statements.....	D, 298; E, 310
Agreements Approved by Orders-in-Council.....	11
Aguasabon River Survey.....	69
Ailsa Craig—Load in Horsepower.....	22
Cost of Power.....	122
Credit or Charge Account.....	138
Sinking Fund.....	154
Municipal Accounts.....	A, 184; B, 236
Statements.....	D, 298; E, 310
Alexander Generating Station, Fourth Unit.....	xiv
Power Generated.....	16
Hydraulic Construction.....	68
Description of.....	346
Alexandria—Load in Horsepower.....	22
Cost of Power.....	122
Credit or Charge Account.....	138
Sinking Fund.....	154
Municipal Accounts.....	A, 184; B, 236
Statements.....	D, 298; E, 310
Alliance Paper Mills Ltd., Agreement Approved.....	11

Alliston—Load in Horsepower.....	22
Cost of Power.....	122
Credit or Charge Account.....	138
Sinking Fund.....	154
Municipal Accounts.....	A, 184; B, 236
Statements.....	D, 298; E, 310
Almonte, Agreement Approved.....	11
Municipal Work.....	41
Alvinston—Load in Horsepower.....	22
Cost of Power.....	122
Credit or Charge Account.....	138
Sinking Fund.....	154
Municipal Accounts.....	A, 185; B, 237
Statements.....	D, 298; E, 310
Amalgamation in Southern Ontario.....	vii
Amalgamation of Systems.....	15
Amherstburg—Load in Horsepower.....	22
Municipal Work.....	37
Cost of Power.....	122
Credit or Charge Account.....	138
Sinking Fund.....	154
Municipal Accounts.....	A, 185; B, 237
Statements.....	D, 294; E, 310
Ancaster Township—Load in Horsepower	22
Cost of Power.....	122
Credit or Charge Account.....	138
Sinking Fund.....	154
Municipal Accounts.....	A, 185; B, 237
Statements.....	D, 298; E, 310
Annual Report, Guide to.....	6
Apple Hill—Load in Horsepower.....	22
Cost of Power.....	122
Credit or Charge Account.....	138
Sinking Fund.....	154
Municipal Accounts.....	A, 185; B, 237
Statements.....	D, 298; E, 310
Appliances—Statistics re Use of.....	57
Approvals Laboratory.....	92
Arkona—Load in Horsepower.....	22
Cost of Power.....	122
Credit or Charge Account.....	138
Sinking Fund.....	154
Municipal Accounts.....	A, 185; B, 237
Statements.....	D, 298; E, 310
Arnprior—Load in Horsepower.....	22
Cost of Power.....	122
Credit or Charge Account.....	138
Sinking Fund.....	154
Municipal Accounts.....	A, 185; B, 237
Statements.....	D, 294; E, 310
Arthur—Load in Horsepower.....	22
Cost of Power.....	122
Credit or Charge Account.....	138
Sinking Fund.....	154
Municipal Accounts.....	A, 185; B, 237
Statements.....	D, 298; E, 310

\*The Statements "A", "B", "C", "D" and "E", appertaining to the local municipal electric utilities—and given in Section X of the Report—are detailed individually for Acton, but in the case of other municipalities are grouped under the sub-heading of "Municipal Accounts" with reference to Statements "A" and "B" and under the sub-heading "Statements" with reference to Statements "D" and "E". Statement "C" suspended.

Assets Fixed	
Re Hydro-Electric Power Commission	106
Re Northern Ontario Properties	168
Athens—Load in Horsepower	22
Cost of Power	122
Credit or Charge Account	138
Sinking Fund	154
Municipal Accounts	A, 186; B, 238
Statements	D, 298; E, 310
Atlas Steels Ltd., Agreement Approved	11
Auburn Gen. Sta.—Power Generated	16
Description of	344
Aurora—Load in Horsepower	22
Cost of Power	122
Credit or Charge Account	138
Sinking Fund	154
Municipal Accounts	A, 186; B, 238
Statements	D, 294; E, 310
Aylmer—Load in Horsepower	22
Cost of Power	122
Credit or Charge Account	138
Sinking Fund	154
Municipal Accounts	A, 186; B, 238
Statements	D, 294; E, 310
Ayr—Load in Horsepower	22
Cost of Power	122
Credit or Charge Account	138
Sinking Fund	154
Municipal Accounts	A, 186; B, 238
Statements	D, 298; E, 310
<b>B</b>	
Baden—Load in Horsepower	22
Cost of Power	122
Credit or Charge Account	138
Sinking Fund	154
Municipal Accounts	A, 186; B, 238
Statements	D, 298; E, 310
Bala—Load in Horsepower	22
Cost of Power and Rates of Service	310
Bala Gen. Stns.—Power Generated	16
Description of	338
Balance Sheet	
Re Hydro-Electric Power Commission	102
Re Northern Ontario Properties	164
Re Hamilton Street Railway	174
Barrett Chute Gen. Sta.—Power Generated	16
Description of	346
Barrie—Load in Horsepower	22
Cost of Power	122
Credit or Charge Account	138
Sinking Fund	154
Municipal Accounts	A, 187; B, 239
Statements	D, 294; E, 310
Bath—Load in Horsepower	22
Cost of Power	122
Credit or Charge Account	138
Sinking Fund	154
Municipal Accounts	A, 187; B, 239
Statements	D, 298; E, 310
Beach Estate, M.F.—Power Purchased	17
Beachville—Load in Horsepower	22
Cost of Power	122
Credit or Charge Account	138
Sinking Fund	154
Municipal Accounts	A, 187; B, 239
Statements	D, 298; E, 310
Beamsville—Load in Horsepower	22
Cost of Power	122
Credit or Charge Account	138
Sinking Fund	154
Municipal Accounts	A, 187; B, 239
Statements	D, 298; E, 310
Beardmore Townsite—Load in Horsepower	29
Cost of Power and Rates for Service	310
Beauharnois Light, Heat and Power Co.	
—Power Purchased	17
Beaverton—Load in Horsepower	22
Cost of Power	122
Credit or Charge Account	138
Sinking Fund	154
Municipal Accounts	A, 187; B, 239
Statements	D, 298; E, 310
Beeton—Load in Horsepower	22
Cost of Power	122
Credit or Charge Account	138
Sinking Fund	154
Municipal Accounts	A, 187; B, 239
Statements	D, 298; E, 310
Belle River—Load in Horsepower	22
Cost of Power	122
Credit or Charge Account	138
Sinking Fund	154
Municipal Accounts	A, 187; B, 239
Statements	D, 298; E, 310
Belleville—Load in Horsepower	22
Municipal Work	42
Cost of Power	122
Credit or Charge Account	138
Sinking Fund	154
Municipal Accounts	A, 188; B, 240
Statements	D, 294; E, 310
Bell Telephone Co., Joint use of Poles	35
Big Chute Gen. Sta.—Power Generated	16
Description of	339
Big Eddy Gen. Sta.—Power Generated	16
Description of	337
Bingham Chute Gen. Sta.—Power Generated	16
Description of	349
Black Sturgeon Dam—Hydraulic Construction	70
Blenheim—Load in Horsepower	22
Municipal Work	37
Cost of Power	122
Credit or Charge Account	138
Sinking Fund	154
Municipal Accounts	A, 188; B, 240
Statements	D, 298; E, 310
Bloomfield—Load in Horsepower	22
Cost of Power	122
Credit or Charge Account	138
Sinking Fund	154
Municipal Accounts	A, 188; B, 240
Statements	D, 298; E, 310
Blyth—Load in Horsepower	22
Cost of Power	122
Credit or Charge Account	138
Sinking Fund	154
Municipal Accounts	A, 188; B, 240
Statements	D, 298; E, 310

Bolton—Load in Horsepower.....	22	Brighton—Load in Horsepower.....	22
Cost of Power.....	122	Cost of Power.....	122
Credit or Charge Account.....	138	Credit or Charge Account.....	138
Sinking Fund.....	154	Sinking Fund.....	154
Municipal Accounts.....	A, 188; B, 240	Municipal Accounts.....	A, 190; B, 242
Statements.....	D, 298; E, 310	Statements.....	D, 298; E, 312
Bothwell—Load in Horsepower.....	22	Brockville—Load in Horsepower.....	22
Municipal Work.....	37	Cost of Power.....	122
Cost of Power.....	122	Credit or Charge Account.....	138
Credit or Charge Account.....	138	Sinking Fund.....	154
Sinking Fund.....	154	Municipal Accounts.....	A, 190; B, 242
Municipal Accounts.....	A, 189; B, 241	Statements.....	D, 294; E, 310
Statements.....	D, 298; E, 310	Bronte—Load in Horsepower.....	22
Bowmanville—Load in Horsepower.....	22	Brussels—Load in Horsepower.....	22
Municipal Work.....	42	Cost of Power.....	124
Cost of Power.....	122	Credit or Charge Account.....	140
Credit or Charge Account.....	138	Sinking Fund.....	154
Sinking Fund.....	154	Municipal Accounts.....	A, 191; B, 243
Municipal Accounts.....	A, 189; B, 241	Statements.....	D, 298; E, 312
Statements.....	D, 294; E, 310	Burford—Load in Horsepower.....	22
Bradford—Load in Horsepower.....	22	Cost of Power.....	124
Municipal Work.....	41	Credit or Charge Account.....	140
Cost of Power.....	122	Sinking Fund.....	154
Credit or Charge Account.....	138	Municipal Accounts.....	A, 191; B, 243
Sinking Fund.....	154	Statements.....	D, 298; E, 312
Municipal Accounts.....	A, 189; B, 241	Burgessville—Load in Horsepower.....	22
Statements.....	D, 298; E, 310	Municipal Work.....	38
Braeside—Load in Horsepower.....	22	Cost of Power.....	124
Brampton—Load in Horsepower.....	22	Credit or Charge Account.....	140
Cost of Power.....	122	Sinking Fund.....	154
Credit or Charge Account.....	138	Municipal Accounts.....	A, 191; B, 243
Sinking Fund.....	154	Statements.....	D, 298; E, 312
Municipal Accounts.....	A, 189; B, 241	Burlington—Load in Horsepower.....	22
Statements.....	D, 294; E, 310	Burlington Beach—Load in Horsepower.....	22
Brantford—Load in Horsepower.....	22	Cost of Power and Rates for Service.....	312
Municipal Work.....	37	Burlington Transformer Station, Construction.....	72
Cost of Power.....	122		
Credit or Charge Account.....	138		
Sinking Fund.....	154		
Municipal Accounts.....	A, 189; B, 241		
Statements.....	D, 294; E, 310		
Brantford Township — Load in Horse-power.....	22		
Municipal Work.....	38		
Cost of Power.....	122		
Credit or Charge Account.....	138		
Sinking Fund.....	154		
Municipal Accounts.....	A, 189; B, 241		
Statements.....	D, 298; E, 310		
Brechin—Load in Horsepower.....	22		
Cost of Power.....	122		
Credit or Charge Account.....	138		
Sinking Fund.....	154		
Rural Lines.....	159		
Municipal Accounts.....	A, 190; B, 242		
Statements.....	D, 298; E, 310		
Bridgeport—Load in Horsepower.....	22		
Cost of Power.....	122		
Credit or Charge Account.....	138		
Sinking Fund.....	154		
Municipal Accounts.....	A, 190; B, 242		
Statements.....	D, 298; E, 310		
Brigden—Load in Horsepower.....	22		
Cost of Power.....	122		
Credit or Charge Account.....	138		
Sinking Fund.....	154		
Municipal Accounts.....	A, 190; B, 242		
Statements.....	D, 298; E, 310		
		C	
Canadian Electrical Code.....	94		
Canadian Industrial Alcohol Co. Ltd., Agreement Approved.....	11		

Canadian Industries Ltd., Agreement Approved.	11	Chesterville—Load in Horsepower.....	23
Canadian Niagara Power Co.—Power Purchased.	17	Cost of Power.....	124
Cannington—Load in Horsepower.....	23	Credit or Charge Account.....	140
Cost of Power.....	124	Sinking Fund.....	154
Credit or Charge Account.....	140	Municipal Accounts.....	A, 193; B, 245
Sinking Fund.....	154	Statements.....	D, 300; E, 312
Capreol—Load in Horsepower.....	34	Chippawa—Load in Horsepower.....	23
Municipal Accounts.....	A, 235; B, 287	Cost of Power.....	124
Statements.....	D, 298; E, 312	Credit or Charge Account.....	140
Cardinal—Load in Horsepower.....	23	Sinking Fund.....	154
Cost of Power.....	124	Municipal Accounts.....	A, 193; B, 245
Credit or Charge Account.....	140	Statements.....	D, 300; E, 312
Sinking Fund.....	154	Clifford—Load in Horsepower.....	23
Municipal Accounts.....	A, 191; B, 243	Cost of Power.....	124
Statements.....	D, 298; E, 312	Credit or Charge Account.....	140
Carleton Place—Load in Horsepower.....	23	Sinking Fund.....	154
Cost of Power.....	124	Municipal Accounts.....	A, 193; B, 245
Credit or Charge Account.....	140	Statements.....	D, 294; E, 312
Sinking Fund.....	154	Clinton—Load in Horsepower.....	23
Municipal Accounts.....	A, 192; B, 244	Cost of Power.....	124
Statements.....	D, 294; E, 312	Credit or Charge Account.....	140
Carleton Place Gen. Sta. — Power Generated.....	16	Sinking Fund.....	154
Description of.....	345	Municipal Accounts.....	A, 193; B, 245
Carlsruhe—Load in Horsepower.....	23	Statements.....	D, 300; E, 312
Cayuga—Load in Horsepower.....	23	Cobden—Load in Horsepower.....	23
Cost of Power.....	124	Cost of Power.....	124
Credit or Charge Account.....	140	Credit or Charge Account.....	140
Sinking Fund.....	154	Sinking Fund.....	154
Municipal Accounts.....	A, 192; B, 244	Municipal Accounts.....	A, 193; B, 245
Statements.....	D, 298; E, 312	Statements.....	D, 294; E, 312
Central Aircraft Manufacturing Co. Ltd., Agreement Approved.....	11	Cobourg—Load in Horsepower.....	23
Chatham—Load in Horsepower.....	23	Cost of Power.....	124
Municipal Work.....	38	Credit or Charge Account.....	140
Cost of Power.....	124	Sinking Fund.....	154
Credit or Charge Account.....	140	Municipal Accounts.....	A, 193; B, 245
Sinking Fund.....	154	Statements.....	D, 294; E, 312
Municipal Accounts.....	A, 192; B, 244	Cochenour-Willans Gold Mines Ltd., Agreement Approved.....	11
Statements.....	D, 294; E, 312	Colborne—Load in Horsepower.....	23
Chats Falls Frequency-Changer Station, Description of.....	335	Cost of Power.....	124
Chats Falls Gen. Sta.—Power Generated 16 Description of.....	335	Credit or Charge Account.....	140
Chatsworth—Load in Horsepower.....	23	Sinking Fund.....	154
Cost of Power.....	124	Municipal Accounts.....	A, 193; B, 245
Credit or Charge Account.....	140	Statements.....	D, 300; E, 312
Sinking Fund.....	154	Coldwater—Load in Horsepower.....	23
Municipal Accounts.....	A, 192; B, 244	Cost of Power.....	124
Statements.....	D, 294; E, 312	Credit or Charge Account.....	140
Chemical Testing.....	90	Sinking Fund.....	154
Chem-Ore Mines Ltd., Agreement Approved.....	11	Municipal Accounts.....	A, 194; B, 246
Chesley—Load in Horsepower.....	23	Statements.....	D, 300; E, 312
Cost of Power.....	124	Collingwood—Load in Horsepower.....	23
Credit or Charge Account.....	140	Cost of Power.....	124
Sinking Fund.....	154	Credit or Charge Account.....	140
Municipal Accounts.....	A, 192; B, 244	Sinking Fund.....	154
Statements.....	D, 298; E, 312	Municipal Accounts.....	A, 194; B, 246
Communications, All Systems.....	82	Statements.....	D, 294; E, 312
Concrete, Inspection of.....	90	Comber—Load in Horsepower.....	23
Coniston Gen. Sta.—Power Generated 16 Description of.....	348	Cost of Power.....	124

Construction Activities, Summary of.....	xi
Consumers, Number of, Consult Statements "B" and "D".....	236, 290
Consumption, Energy, Consult Statement "D".....	290
Cooperative Systems, Summarized Operating Results.....	xxi
Financial Features of.....	1
Description of.....	4
Agreements Approved.....	11
Financial Operations Explained.....	95
Cookstown—Load in Horsepower.....	23
Municipal Work.....	41
Cost of Power.....	124
Credit or Charge Account.....	140
Sinking Fund.....	154
Municipal Accounts..... A, 194; B, 246	
Statements..... D, 300; E, 312	
Cottage Cove Townsite—Load in Horsepower.....	34
Cost of Power and Rates for Service.....	312
Cottam—Load in Horsepower.....	23
Cost of Power.....	124
Credit or Charge Account.....	140
Sinking Fund.....	154
Municipal Accounts..... A, 194; B, 246	
Statements..... D, 300; E, 312	
Courtright—Load in Horsepower.....	23
Cost of Power.....	124
Credit or Charge Account.....	140
Sinking Fund.....	154
Municipal Accounts..... A, 195; B, 247	
Statements..... D, 300; E, 312	
Creemore—Load in Horsepower.....	23
Cost of Power.....	124
Credit or Charge Account.....	140
Sinking Fund.....	154
Municipal Accounts..... A, 195; B, 247	
Statements..... D, 300; E, 312	
Crystal Falls Gen. Sta.—Power Generated 16	
Description of.....	349
 <b>D</b> 	
Dashwood—Load in Horsepower.....	23
Cost of Power.....	124
Credit or Charge Account.....	140
Sinking Fund.....	154
Municipal Accounts..... A, 195; B, 247	
Statements..... D, 300; E, 312	
Debentures (See under Funded Debt).....	116
DeCew Falls Gen. Sta.—Power Generated 16	
Hydraulic Construction.....	65
Description of.....	336
DeCew Falls Extension Gen. Sta.—Description of.....	336
Delaware—Load in Horsepower.....	23
Cost of Power.....	124
Credit or Charge Account.....	140
Sinking Fund.....	154
Municipal Accounts..... A, 195; B, 247	
Statements..... D, 300; E, 312	
Delihi—Load in Horsepower.....	23
Cost of Power.....	124
Credit or Charge Account.....	140
Sinking Fund.....	154
Municipal Accounts..... A, 195; B, 247	
Statements..... D, 294; E, 312	
Dundalk—Load in Horsepower.....	23
Cost of Power.....	124
Credit or Charge Account.....	140
Sinking Fund.....	154
Municipal Accounts..... A, 196; B, 248	
Statements..... D, 300; E, 314	
Dundas—Load in Horsepower.....	23
Municipal Work.....	38
Cost of Power.....	124
Credit or Charge Account.....	140
Sinking Fund.....	154
Municipal Accounts..... A, 197; B, 249	
Statements..... D, 294; E, 314	
Departments, Reorganization of.....	ix
Deseronto—Load in Horsepower.....	23
Cost of Power.....	124
Credit or Charge Account.....	140
Sinking Fund.....	154
Municipal Accounts..... A, 195; B, 247	
Statements..... D, 300; E, 312	
Distribution Lines and Systems in Rural Power Districts.....	83
Domestic Hot Water Tanks and Heaters, Research re.....	85
Domestic Service, Statistics re, Consult Statement "D".....	290
Rates for, Consult Statement "E".....	308
Dominion Power Division, Description of Generating Stations.....	336
Dorchester—Load in Horsepower.....	23
Cost of Power.....	124
Credit or Charge Account.....	140
Sinking Fund.....	154
Municipal Accounts..... A, 195; B, 247	
Statements..... D, 300; E, 312	
Douro Gen. Sta.—Power Generated.....	16
Drayton—Load in Horsepower.....	23
Cost of Power.....	124
Credit or Charge Account.....	140
Sinking Fund.....	154
Municipal Accounts..... A, 196; B, 248	
Statements..... D, 300; E, 312	
Dresden—Load in Horsepower.....	23
Municipal Work.....	38
Cost of Power.....	124
Credit or Charge Account.....	140
Sinking Fund.....	154
Municipal Accounts..... A, 196; B, 248	
Statements..... D, 300; E, 312	
Drumbo—Load in Horsepower.....	23
Cost of Power.....	124
Credit or Charge Account.....	140
Sinking Fund.....	154
Municipal Accounts..... A, 196; B, 248	
Statements..... D, 300; E, 312	
Dryden Paper Co. Ltd., Agreement Approved.....	11
Dublin—Load in Horsepower.....	23
Cost of Power.....	124
Credit or Charge Account.....	140
Sinking Fund.....	154
Municipal Accounts..... A, 196; B, 248	
Statements..... D, 300; E, 314	
Dundalk—Load in Horsepower.....	23
Cost of Power.....	124
Credit or Charge Account.....	140
Sinking Fund.....	154
Municipal Accounts..... A, 196; B, 248	
Statements..... D, 300; E, 314	
Dundas—Load in Horsepower.....	23
Municipal Work.....	38
Cost of Power.....	124
Credit or Charge Account.....	140
Sinking Fund.....	154
Municipal Accounts..... A, 197; B, 249	
Statements..... D, 294; E, 314	

Dunnville—Load in Horsepower.....	23
Cost of Power.....	124
Credit or Charge Account.....	140
Sinking Fund.....	154
Municipal Accounts.....	A, 197; B, 249
Statements.....	D, 294; E, 314

Durham—Load in Horsepower.....	23
Cost of Power.....	124
Credit or Charge Account.....	140
Sinking Fund.....	154
Municipal Accounts.....	A, 197; B, 249
Statements.....	D, 300; E, 314

Dutton—Load in Horsepower.....	23
Cost of Power.....	124
Credit or Charge Account.....	140
Sinking Fund.....	154
Municipal Accounts.....	A, 197; B, 249
Statements.....	D, 300; E, 314

**E**

Ear Falls Gen. Sta.—Power Generated..	16
Description of.....	350

Eastern Ontario Division, Right-of-Way	13
Generating Plants—Power Generated..	16
Municipal Work.....	41
Engineering Assistance to Municipalities	41
Hydraulic Construction.....	67
Generating Stations, Description of .....	341

East York Township—Load in Horse-power.....	23
Municipal Work.....	38
Cost of Power.....	126
Credit or Charge Account.....	142
Sinking Fund.....	155
Municipal Accounts.....	A, 197; B, 249
Statements.....	D, 300; E, 314

Electrical Engineering and Constr.....	71
Electrical Equipment, Routine Testing...	88
Electrical Inspection Department.....	93
Electrocutions and Fatal Accidents.....	93
Elliott Chute Gen. Sta.—Power Generated	16
Description of.....	350

Elmira—Load in Horsepower.....	23
Cost of Power.....	126
Credit or Charge Account.....	142
Sinking Fund.....	155
Municipal Accounts.....	A, 197; B, 249
Statements.....	D, 296; E, 314

Elmvale—Load in Horsepower.....	23
Cost of Power.....	126
Credit or Charge Account.....	142
Sinking Fund.....	155
Municipal Accounts.....	A, 197; B, 249
Statements.....	D, 300; E, 314

Elmwood—Load in Horsepower.....	23
Cost of Power.....	126
Credit or Charge Account.....	142
Sinking Fund.....	155
Municipal Accounts.....	A, 198; B, 250
Statements.....	D, 300; E, 314

Elora—Load in Horsepower.....	23
Cost of Power.....	126
Credit or Charge Account.....	142
Sinking Fund.....	155
Municipal Accounts.....	A, 198; B, 250
Statements.....	D, 300; E, 314

Embroy—Load in Horsepower.....	23
Municipal Work.....	38
Cost of Power.....	126
Credit or Charge Account.....	142
Sinking Fund.....	155
Municipal Accounts.....	A, 198; B, 250
Statements.....	D, 300; E, 314

Employees, The Commission and Its.	xviii
------------------------------------	-------

Employees in the Services.....	xviii
--------------------------------	-------

Engineering Activities, Summary of .....	xi
--	----

Equipment, New Laboratory.....	91
--------------------------------	----

Erieau—Load in Horsepower.....	23
Municipal Work.....	38
Cost of Power.....	126
Credit or Charge Account.....	142
Sinking Fund.....	155
Municipal Accounts.....	A, 198; B, 250
Statements.....	D, 300; E, 314

Erie Beach—Load in Horsepower.....	23
------------------------------------	----

Cost of Power.....	126
Credit or Charge Account.....	142
Sinking Fund.....	155
Municipal Accounts.....	A, 198; B, 250
Statements.....	D, 300; E, 314

Essex—Load in Horsepower.....	23
-------------------------------	----

Cost of Power.....	126
Credit or Charge Account.....	142
Sinking Fund.....	155
Municipal Accounts.....	A, 199; B, 251
Statements.....	D, 300; E, 314

Etobicoke Township — Load in Horse-power.....	23
---	----

Cost of Power.....	126
Credit or Charge Account.....	142
Sinking Fund.....	155
Municipal Accounts.....	A, 199; B, 251
Statements.....	D, 300; E, 314

Eugenia Falls Gen. Sta. — Power Generated.....	16
--	----

Description of.....	340
---------------------	-----

Exeter—Load in Horsepower.....	23
--------------------------------	----

Cost of Power.....	126
Credit or Charge Account.....	142
Sinking Fund.....	155
Municipal Accounts.....	A, 199; B, 251
Statements.....	D, 300; E, 314

**F**

Factory Inspection, Investigations.....	87
---	----

Fenelon Falls Gen. Sta.—Power Generated	16
---	----

Description of.....	344
---------------------	-----

Fenelon Falls Light, Heat and Power	
-------------------------------------	--

Commission—Power Purchased.....	17
---------------------------------	----

Fergus—Load in Horsepower.....	23
--------------------------------	----

Cost of Power.....	126
Credit or Charge Account.....	142
Sinking Fund.....	155
Municipal Accounts.....	A, 199; B, 251
Statements.....	D, 296; E, 314

Financial Features of Undertaking.....	1
--	---

Financial Statements.....	95
---------------------------	----

Finch—Load in Horsepower.....	23
-------------------------------	----

Cost of Power.....	126
Credit or Charge Account.....	140
Sinking Fund.....	155
Municipal Accounts.....	A, 199; B, 251
Statements.....	D, 300; E, 314

Fires Attributed to Electricity.....	93	Georgian Bay Division, Right-of-Way.....	13
Flesherton—Load in Horsepower.....	23	Plants—Power Generated.....	16
Cost of Power.....	126	Municipal Work.....	40
Credit or Charge Account.....	142	Engineering Assistance to Municipalities	41
Sinking Fund.....	155	Generating Stations, Description of.....	337
Municipal Accounts.....	A, 199; B, 251	Geraldton Townsite—Load in Horsepower	29
Statements.....	D, 300; E, 314	Cost of Power and Rates for Service	314
Fonthill—Load in Horsepower.....	24	Glencoe—Load in Horsepower.....	24
Cost of Power.....	126	Municipal Work.....	38
Credit or Charge Account.....	142	Cost of Power.....	126
Sinking Fund.....	155	Credit or Charge Account.....	142
Municipal Accounts.....	A, 199; B, 251	Sinking Fund.....	155
Statements.....	D, 300; E, 314	Municipal Accounts.....	A, 201; B, 253
Forest—Load in Horsepower.....	24	Statements.....	D, 300; E, 314
Cost of Power.....	126	Glen Williams	
Credit or Charge Account.....	142	Cost of Power and Rates for Service	314
Sinking Fund.....	155	Goderich—Load in Horsepower.....	24
Municipal Accounts.....	A, 200; B, 252	Municipal Work.....	38
Statements.....	D, 300; E, 314	Cost of Power.....	126
Forest Hill—Load in Horsepower.....	24	Credit or Charge Account.....	142
Cost of Power.....	126	Sinking Fund.....	155
Credit or Charge Account.....	142	Municipal Accounts.....	A, 201; B, 253
Sinking Fund.....	155	Statements.....	D, 296; E, 314
Municipal Accounts.....	A, 200; B, 252	Grand Valley—Load in Horsepower.....	24
Statements.....	D, 296; E, 314	Cost of Power.....	126
Forestry Work.....	35	Credit or Charge Account.....	142
Foreword.....	1	Sinking Fund.....	155
Fort William—Load in Horsepower.....	29	Municipal Accounts.....	A, 201; B, 253
Cost of Power.....	160	Statements.....	D, 300; E, 314
Credit or Charge Account.....	160	Granton—Load in Horsepower.....	24
Sinking Fund.....	162	Cost of Power.....	126
Municipal Accounts.....	A, 234; B, 286	Credit or Charge Account.....	142
Statements.....	D, 294; E, 314	Sinking Fund.....	155
Frankford—Load in Horsepower.....	24	Municipal Accounts.....	A, 201; B, 253
Cost of Power and Rates for Service	314	Statements.....	D, 300; E, 314
Frankford Gen. Sta.—Power Generated.	16	Gravenhurst—Load in Horsepower.....	24
Description of.....	342	Cost of Power.....	126
Frequencies, Automatic Control of.....	vii	Credit or Charge Account.....	142
Consult Foreword.....	4	Sinking Fund.....	155
In Municipalities.....	22	Municipal Accounts.....	A, 201; B, 253
Funded Debt, Thirty Years' Record.....	5	Statements.....	D, 300; E, 314
Tabulation of.....	116	Grimsby—Load in Horsepower.....	24
<b>G</b>		Cost of Power.....	126
Galetta Gen. Sta.—Power Generated.....	16	Credit or Charge Account.....	142
Description of.....	345	Sinking Fund.....	155
Galt—Load in Horsepower.....	24	Municipal Accounts.....	A, 201; B, 253
Municipal Work.....	38	Statements.....	D, 302; E, 314
Cost of Power.....	126	Ground Tests.....	93
Credit or Charge Account.....	142	Guelph—Load in Horsepower.....	24
Sinking Fund.....	155	Municipal Work.....	38
Municipal Accounts.....	A, 200; B, 252	Cost of Power.....	126
Statements.....	D, 294; E, 314	Credit or Charge Account.....	142
Gamebridge		Sinking Fund.....	155
Cost of Power and Rates for Service	314	Municipal Accounts.....	A, 201; B, 253
Gananoque Light, Heat and Power Co.		Statements.....	D, 294; E, 314
—Power Purchased.....	17	<b>H</b>	
Ganaraska Watershed, Report.....	xv	Hagersville—Load in Horsepower.....	24
Gatineau Power Co.—Power Purchased	17	Cost of Power.....	126
Generating Stations, Description of.....	333	Credit or Charge Account.....	142
Georgetown—Load in Horsepower.....	24	Sinking Fund.....	155
Municipal Work.....	38	Municipal Accounts.....	A, 202; B, 254
Cost of Power.....	126	Statements.....	D, 302; E, 314
Credit or Charge Account.....	142	Hague's Reach Gen. Sta.—Power Gen-	
Sinking Fund.....	155	erated.....	16
Municipal Accounts.....	A, 200; B, 252	Description of.....	343
Statements.....	D, 296; E, 314		

Hamilton—Load in Horsepower.....	24	High Falls Gen. Sta.—Power Generated..	16
Municipal Work.....	38	Description of.....	345
Cost of Power.....	126	Highbury—Load in Horsepower.....	24
Credit or Charge Account.....	142	Cost of Power.....	126
Sinking Fund.....	155	Credit or Charge Account.....	142
Municipal Accounts..... A, 202; B, 254		Sinking Fund.....	155
Statements..... D, 294; E, 314		Municipal Accounts..... A, 203; B, 255	
Hamilton Beach		Statements..... D, 302; E, 316	
Cost of Power and Rates for Service..... 312		Hislop Townsite—Load in Horsepower..... 34	
Hamilton Street Railway		Cost of Power and Rates for Service..... 316	
Financial Accounts..... 173		Hollinger Consolidated Gold Mines Ltd.,	
Balance Sheet..... 174		Agreement Approved..... 11	
Operating Account..... 176		Holstein—Load in Horsepower..... 24	
Hanna Chute Gen. Sta.—Power Generated.....	16	Cost of Power..... 126	
Description of..... 339		Credit or Charge Account..... 142	
Hanover—Load in Horsepower..... 24		Sinking Fund..... 155	
Cost of Power..... 126		Municipal Accounts..... A, 203; B, 255	
Credit or Charge Account..... 142		Statements..... D, 302; E, 316	
Sinking Fund..... 155		Howard Smith Paper Mills Ltd., Agree-	
Municipal Accounts..... A, 202; B, 254		ment Approved..... 11	
Statements..... D, 296; E, 314		Hudson—Load in Horsepower..... 34	
Hanover Frequency-Changer Station,		Hudson Townsite	
Description of..... 340		Cost of Power and Rates for Service..... 316	
Hanover Gen. Sta.—Power Generated..... 16		Humberstone—Load in Horsepower..... 24	
Description of..... 340		Cost of Power..... 126	
Harriston—Load in Horsepower..... 24		Credit or Charge Account..... 142	
Cost of Power..... 126		Sinking Fund..... 155	
Credit or Charge Account..... 142		Municipal Accounts..... A, 204; B, 256	
Sinking Fund..... 155		Statements..... D, 296; E, 316	
Municipal Accounts..... A, 202; B, 254		Huntsville—Load in Horsepower..... 24	
Statements..... D, 302; E, 316		Cost of Power..... 126	
Harrow—Load in Horsepower..... 24		Credit or Charge Account..... 142	
Municipal Work..... 38		Sinking Fund..... 155	
Cost of Power..... 126		Municipal Accounts..... A, 204; B, 256	
Credit or Charge Account..... 142		Statements..... D, 296; E, 316	
Sinking Fund..... 155		Huronian Co.—Power Purchased..... 17	
Municipal Accounts..... A, 203; B, 255		Hydraulic Engineering and Construction..... 65	
Statements..... D, 302; E, 316		Hydraulic Investigations..... 70	
Hastings—Load in Horsepower..... 24		Hydro-Electric Power Commission, The	
Cost of Power..... 126		Financial Operations Explained..... 95	
Credit or Charge Account..... 142		Balance Sheet..... 102	
Sinking Fund..... 155		Statement of Operations..... 104	
Municipal Accounts..... A, 203; B, 255		Fixed Assets, Summary of..... 109	
Statements..... D, 302; E, 316		Fixed Assets, Changes in..... 110	
Havelock—Load in Horsepower..... 24		Account with Provincial Treasurer..... 115	
Cost of Power..... 126		Funded Debt..... 116	
Credit or Charge Account..... 142		Power Accounts Receivable..... 118	
Sinking Fund..... 155		Renewals Reserves..... 118	
Municipal Accounts..... A, 203; B, 255		Contingencies and Obsolescence	
Statements..... D, 302; E, 316		Reserves..... 119	
Health Service.....	xix	Stabilization of Rates Reserves..... 120	
Heely Falls Gen. Sta.—Power Generated..... 16		Sinking Fund Reserves..... 120	
Description of..... 344		Hydro on the Farm, Pamphlet Published	xvi
Hensall—Load in Horsepower..... 24		Hydro Utilities “Out of Debt”..... x	
Cost of Power..... 126			
Credit or Charge Account..... 142		<b>I</b>	
Sinking Fund..... 155			
Municipal Accounts..... A, 203; B, 255			
Statements..... A, 302; E, 316			
Hepworth—Load in Horsepower..... 24			
Cost of Power and Rates for Service..... 316			
Hespeler—Load in Horsepower..... 24			
Municipal Work..... 39			
Cost of Power..... 126			
Credit or Charge Account..... 142			
Sinking Fund..... 155			
Municipal Accounts..... A, 203; B, 255			
Statements..... D, 296; E, 316			
Illumination, Research re.....	86		
Industrial Promotional Work.....	64		
Ingersoll—Load in Horsepower.....	24		
Cost of Power..... 126			
Credit or Charge Account..... 142			
Sinking Fund..... 155			
Municipal Accounts..... A, 204; B, 256			
Statements..... D, 296; E, 316			
Inspection.....	84		
Materials and Equipment..... 88			

Inspections of Equipment, Special.....	94
Insulation, Electrical, Research re.....	84
Iroquois—Load in Horsepower.....	24
Cost of Power.....	128
Credit or Charge Account.....	144
Sinking Fund.....	155
Municipal Accounts.....	A, 204; B, 256
Statements.....	D, 302; E, 316

**J**

Jarvis—Load in Horsepower.....	24
Cost of Power.....	128
Credit or Charge Account.....	144
Sinking Fund.....	155
Municipal Accounts.....	A, 204; B, 256
Statements.....	D, 302; E, 316

**K**

Kaministiquia Power Co. — Power Purchased.....	17
--	----

Kearns Townsite—Load in Horsepower ..	34
Cost of Power and Rates for Service..	316

Kemptville—Load in Horsepower.....	24
Cost of Power.....	128
Credit or Charge Account.....	144
Sinking Fund.....	155
Municipal Accounts.....	A, 205; B, 257
Statements.....	D, 302; E, 316

Kincardine—Load in Horsepower.....	24
Cost of Power.....	128
Credit or Charge Account.....	144
Sinking Fund.....	155
Municipal Accounts.....	A, 205; B, 257
Statements.....	D, 296; E, 316

King Kirkland Townsite—Load in Horsepower ..	34
Cost of Power and Rates for Service..	316

Kingston—Load in Horsepower.....	24
Cost of Power.....	128
Credit or Charge Account.....	144
Sinking Fund.....	155
Municipal Accounts.....	A, 205; B, 257
Statements.....	D, 294; E, 316

Kingsville—Load in Horsepower .....	24
Municipal Work.....	39
Cost of Power.....	128
Credit or Charge Account.....	144
Sinking Fund.....	155
Municipal Accounts.....	A, 205; B, 257
Statements.....	D, 296; E, 316

Kirkfield—Load in Horsepower .....	24
Cost of Power.....	128
Credit or Charge Account.....	144
Sinking Fund.....	155
Municipal Accounts.....	A, 205; B, 257
Statements.....	D, 302; E, 316

Kitchener—Load in Horsepower .....	24
Cost of Power.....	128
Credit or Charge Account.....	144
Sinking Fund.....	155
Municipal Accounts.....	A, 205; B, 257
Statements.....	D, 294; E, 316

**L**

Laboratories, Research and Testing.....	84
Lahti, John Larry, Agreement Approved.	11
Lakefield—Load in Horsepower.....	24
Cost of Power.....	128
Credit or Charge Account.....	144
Sinking Fund.....	155
Municipal Accounts.....	A, 206; B, 258
Statements.....	D, 302; E, 316

Lakefield Gen. Sta.—Power Generated ..	16
Description of.....	344

Lambeth—Load in Horsepower.....	24
Cost of Power.....	128
Credit or Charge Account.....	144
Sinking Fund.....	155
Municipal Accounts.....	A, 206; B, 258
Statements.....	D, 302; E, 316

Lamps and Lighting Equipment, Inspection of.....	91
---	----

Lanark—Load in Horsepower.....	24
Cost of Power.....	128
Credit or Charge Account.....	144
Sinking Fund.....	155
Municipal Accounts.....	A, 206; B, 258
Statements.....	D, 302; E, 316

Lancaster—Load in Horsepower .....	24
Cost of Power.....	128
Credit or Charge Account.....	144
Sinking Fund.....	155
Municipal Accounts.....	A, 206; B, 258
Statements.....	D, 302; E, 316

LaSalle—Load in Horsepower.....	24
Cost of Power.....	128
Credit or Charge Account.....	144
Sinking Fund.....	155
Municipal Accounts.....	A, 206; B, 258
Statements.....	D, 302; E, 316

Leamington—Load in Horsepower.....	24
Cost of Power.....	128
Credit or Charge Account.....	144
Sinking Fund.....	155
Municipal Accounts.....	A, 207; B, 259
Statements.....	D, 296; E, 316

Leaside Cost of Power and Rates for Service..	316
--	-----

Legal Proceedings.....	11
------------------------	----

Lighting Service, Promotional Work ..	64
---------------------------------------	----

Lindsay—Load in Horsepower .....	24
Cost of Power.....	128
Credit or Charge Account.....	144
Sinking Fund.....	155
Municipal Accounts.....	A, 207; B, 259
Statements.....	D, 296; E, 316

Line Clearing Operations, Summary of ..	35
---	----

Line Conductors, Vibration Studies.....	85
---	----

Lionite Abrasives Ltd., Agreement Approved.....	11
---	----

Listowel—Load in Horsepower .....	24
Cost of Power.....	128
Credit or Charge Account.....	144
Sinking Fund.....	155
Municipal Accounts.....	A, 207; B, 259
Statements.....	D, 296; E, 316

Load Conditions .....	viii
-----------------------	------

Load Conditions, All Systems.....	15
-----------------------------------	----

Load Demands, Co-ordination of .....	vi
--------------------------------------	----

London—Load in Horsepower.....	24	Markham—Load in Horsepower.....	25
Municipal Work.....	39	Cost of Power.....	128
Cost of Power.....	128	Credit or Charge Account.....	144
Credit or Charge Account.....	144	Sinking Fund.....	155
Sinking Fund.....	155	Municipal Accounts.....	A, 208; B, 260
Municipal Accounts.....	A, 207; B, 259	Statements.....	D, 302; E, 318
Statements.....	D, 294; E, 316		
London Township—Load in Horsepower.....	24	Marmora—Load in Horsepower.....	25
Cost of Power.....	128	Cost of Power.....	128
Credit or Charge Account.....	144	Credit or Charge Account.....	144
Sinking Fund.....	155	Sinking Fund.....	155
Municipal Accounts.....	A, 207; B, 259	Municipal Accounts.....	A, 209; B, 261
Statements.....	D, 302; E, 316	Statements.....	D, 302; E, 318
Long Branch—Load in Horsepower.....	24	Martintown—Load in Horsepower.....	25
Cost of Power.....	128	Cost of Power.....	128
Credit or Charge Account.....	144	Credit or Charge Account.....	144
Sinking Fund.....	155	Sinking Fund.....	155
Municipal Accounts.....	A, 207; B, 259	Municipal Accounts.....	A, 209; B, 261
Statements.....	D, 296; E, 316	Statements.....	D, 302; E, 318
Long Lake Diversion—Hydraulic Construction.....	70	Masonry Materials, Research re.....	86
Lucan—Load in Horsepower.....	24	Matachewan Townsite—Load in Horse-power.....	34
Cost of Power.....	128	Cost of Power and Rates for Service.....	318
Credit or Charge Account.....	144		
Sinking Fund.....	155	Maxville—Load in Horsepower.....	25
Municipal Accounts.....	A, 207; B, 259	Cost of Power.....	128
Statements.....	D, 302; E, 316	Credit or Charge Account.....	144
Lucknow—Load in Horsepower.....	24	Sinking Fund.....	155
Cost of Power.....	128	Municipal Accounts.....	A, 209; B, 261
Credit or Charge Account.....	144	Statements.....	D, 302; E, 318
Sinking Fund.....	155		
Municipal Accounts.....	A, 208; B, 260	McVittie Gen. Sta.—Power Generated.....	16
Statements.....	D, 302; E, 316	Description of.....	348
Lynden—Load in Horsepower.....	24	Meaford—Load in Horsepower.....	25
Cost of Power.....	128	Cost of Power.....	128
Credit or Charge Account.....	144	Credit or Charge Account.....	144
Sinking Fund.....	155	Sinking Fund.....	155
Municipal Accounts.....	A, 208; B, 260	Municipal Accounts.....	A, 209; B, 261
Statements.....	D, 302; E, 316	Statements.....	D, 296; E, 318
		Mechanical and Structural Equipment, Inspection of.....	89
<b>M</b>			
MacLaren-Quebec Power Co. — Power Purchased.....	17	Merlin—Load in Horsepower.....	25
MacTier—Load in Horsepower.....	25	Municipal Work.....	39
Cost of Power and Rates for Service.....	316	Cost of Power.....	128
Madoc—Load in Horsepower.....	25	Credit or Charge Account.....	144
Cost of Power.....	128	Sinking Fund.....	155
Credit or Charge Account.....	144	Municipal Accounts.....	A, 209; B, 261
Sinking Fund.....	155	Statements.....	D, 302; E, 318
Municipal Accounts.....	A, 208; B, 260		
Statements.....	D, 302; E, 318	Merritton—Load in Horsepower.....	25
Maintenance of the Systems.....	34	Cost of Power.....	128
Manitoulin District—Operation of.....	32	Credit or Charge Account.....	144
Manitoulin Pulp Co.—Power Purchased	17	Sinking Fund.....	155
Maple Leaf Milling Co. Ltd, Agreement Approved.....	11	Municipal Accounts.....	A, 209; B, 261
Markdale—Load in Horsepower.....	25	Statements.....	D, 296; B, 318
Cost of Power.....	128		
Credit or Charge Account.....	144	Meyersburg Gen. Sta.—Power Generated.....	16
Sinking Fund.....	155	Description of.....	342
Municipal Accounts.....	A, 208; B, 260	Midland—Load in Horsepower.....	25
Statements.....	D, 302; E, 318	Cost of Power.....	128
		Credit or Charge Account.....	144
		Sinking Fund.....	155
		Municipal Accounts.....	A, 209; B, 261
		Statements.....	D, 296; E, 318
Mildmay—Load in Horsepower.....	25	Mildmay—Load in Horsepower.....	25
Cost of Power.....	128	Cost of Power.....	128
Credit or Charge Account.....	144	Credit or Charge Account.....	144
Sinking Fund.....	155	Sinking Fund.....	155
Municipal Accounts.....	A, 210; B, 262	Municipal Accounts.....	A, 210; B, 262
Statements.....	D, 302; E, 318	Statements.....	D, 302; E, 318

	N
Millbrook—Load in Horsepower . . . . .	25
Municipal Work . . . . .	42
Cost of Power . . . . .	128
Credit or Charge Account . . . . .	144
Sinking Fund . . . . .	155
Municipal Accounts . . . . . A, 210; B, 262	
Statements . . . . . D, 302; E, 318	
Milton—Load in Horsepower . . . . .	25
Cost of Power . . . . .	128
Credit or Charge Account . . . . .	144
Sinking Fund . . . . .	155
Rural Lines . . . . .	159
Municipal Accounts . . . . . A, 210; B, 262	
Statements . . . . . D, 302; E, 318	
Milverton—Load in Horsepower . . . . .	25
Municipal Work . . . . .	39
Cost of Power . . . . .	128
Credit or Charge Account . . . . .	144
Sinking Fund . . . . .	155
Municipal Accounts . . . . . A, 210; B, 262	
Statements . . . . . D, 302; E, 318	
Mimico—Load in Horsepower . . . . .	25
Cost of Power . . . . .	128
Credit or Charge Account . . . . .	144
Sinking Fund . . . . .	155
Municipal Accounts . . . . . A, 210; B, 262	
Statements . . . . . D, 296; E, 318	
Mitchell—Load in Horsepower . . . . .	25
Cost of Power . . . . .	128
Credit or Charge Account . . . . .	144
Sinking Fund . . . . .	155
Municipal Accounts . . . . . A, 211; B, 263	
Statements . . . . . D, 302; E, 318	
Moorefield—Load in Horsepower . . . . .	25
Cost of Power . . . . .	128
Credit or Charge Account . . . . .	144
Sinking Fund . . . . .	155
Municipal Accounts . . . . . A, 211; B, 263	
Statements . . . . . D, 302; E, 318	
Mooretown—Load in Horsepower . . . . .	34
Cost of Power and Rates for Service . . . . .	318
Morrisburg—Load in Horsepower . . . . .	25
Cost of Power . . . . .	128
Credit or Charge Account . . . . .	144
Sinking Fund . . . . .	155
Municipal Accounts . . . . . A, 211; B, 263	
Statements . . . . . D, 302; E, 318	
Motion Pictures . . . . .	64
Mount Brydges—Load in Horsepower . . . . .	25
Cost of Power . . . . .	130
Credit or Charge Account . . . . .	146
Sinking Fund . . . . .	156
Municipal Accounts . . . . . A, 211; B, 263	
Statements . . . . . D, 302; E, 318	
Mount Forest—Load in Horsepower . . . . .	25
Cost of Power . . . . .	130
Credit or Charge Account . . . . .	146
Sinking Fund . . . . .	156
Municipal Accounts . . . . . A, 211; B, 263	
Statements . . . . . D, 302; E, 318	
Municipal Electric Utilities, Summary of Year's Operation . . . . .	xxiii
Municipalities, Assistance to Small . . . . .	x
Municipal Work . . . . .	36
Munitions and Supply, Minister of, Agree- ment Approved . . . . .	11
Napanee—Load in Horsepower . . . . .	25
Cost of Power . . . . .	130
Credit or Charge Account . . . . .	146
Sinking Fund . . . . .	156
Municipal Accounts . . . . . A, 211; B, 263	
Statements . . . . . D, 296; E, 318	
National Defence for Air, Minister of, Agreement Approved . . . . .	11
Natural Resources, Conservation of . . . . .	xiv
Neustadt—Load in Horsepower . . . . .	25
Cost of Power . . . . .	130
Credit or Charge Account . . . . .	146
Sinking Fund . . . . .	156
Municipal Accounts . . . . . A, 211; B, 263	
Statements . . . . . D, 302; E, 318	
Newburgh—Load in Horsepower . . . . .	25
Cost of Power and Rates for Service . . . . .	318
Newbury—Load in Horsepower . . . . .	25
Cost of Power . . . . .	130
Credit or Charge Account . . . . .	146
Sinking Fund . . . . .	156
Municipal Accounts . . . . . A, 212; B, 264	
Statements . . . . . D, 302; E, 318	
Newcastle—Load in Horsepower . . . . .	25
Cost of Power . . . . .	130
Credit or Charge Account . . . . .	146
Sinking Fund . . . . .	156
Municipal Accounts . . . . . A, 212; B, 264	
Statements . . . . . D, 304; E, 318	
New Hamburg—Load in Horsepower . . . . .	25
Cost of Power . . . . .	130
Credit or Charge Account . . . . .	146
Sinking Fund . . . . .	156
Municipal Accounts . . . . . A, 212; B, 264	
Statements . . . . . D, 304; E, 318	
Newmarket—Load in Horsepower . . . . .	25
Municipal Work . . . . .	39
New Toronto—Load in Horsepower . . . . .	25
Cost of Power . . . . .	130
Credit or Charge Account . . . . .	146
Sinking Fund . . . . .	156
Municipal Accounts . . . . . A, 212; B, 264	
Statements . . . . . D, 296; E, 318	
Niagara Division, Right-of-Way . . . . .	12
Generating Plants—Power Generated . . . . .	16
Municipal Work . . . . .	37
Generating Stations, Description of . . . . .	334
Niagara Falls—Load in Horsepower . . . . .	25
Cost of Power . . . . .	130
Credit or Charge Account . . . . .	146
Sinking Fund . . . . .	156
Municipal Accounts . . . . . A, 212; B, 264	
Statements . . . . . D, 294; E, 318	
Niagara Falls Frequency-Changer Station Description of . . . . .	337
Niagara Falls Remedial Weir, Completed . . . . .	xiii
Hydraulic Construction . . . . .	66
Niagara-on-the-Lake—Load in Horse- power . . . . .	25
Municipal Work . . . . .	39
Cost of Power . . . . .	130
Credit or Charge Account . . . . .	146
Sinking Fund . . . . .	156
Municipal Accounts . . . . . A, 213; B, 265	
Statements . . . . . D, 304; E, 318	

Niagara River Power Plants.....	66	O	
Nipigon Township—Load in Horsepower.	29	Oakville—Load in Horsepower.....	25
Cost of Power.....	160	Municipal Work.....	39
Credit or Charge Account.....	160	Ogoki Diversion, Hydraulic Construction.	70
Sinking Fund.....	162	Oil Springs—Load in Horsepower.....	25
Municipal Accounts.....	A, 234; B, 286	Cost of Power.....	130
Statements.....	D, 304; E, 318	Credit or Charge Account.....	146
Nipissing—Load in Horsepower.....	34	Sinking Fund.....	156
Cost of Power and Rates for Service.....	318	Municipal Accounts.....	A, 213; B, 265
Nipissing District Generating Plants—		Statements.....	D, 304; E, 318
Power Generated.....	16	Omeme—Load in Horsepower.....	25
Operation of.....	31	Cost of Power.....	130
Diagram of Peak Loads.....	32	Credit or Charge Account.....	146
Loads of Municipalities.....	34	Sinking Fund.....	156
Fixed Assets.....	168	Municipal Accounts.....	A, 213; B, 265
Nipissing Gen. Sta.—Power Generated..	16	Statements.....	D, 304; E, 318
Description of.....	349	Ontario Power Gen. Sta.—Power Gen-	
North Bay—Load in Horsepower.....	34	erated.....	16
Municipal Accounts.....	A, 235; B, 287	Description of.....	334
Statements.....	D, 294; E, 318	Ontario Reformatory—Cost of Power.....	136
Northern Ontario, New Properties Ac-		Credit or Charge Account.....	152
quired.....	xv	Sinking Fund.....	157
Northern Ontario Properties, Summarized		Operating Accounts	
Operating Results.....	xxi	Re Co-operative Systems.....	104
Described.....	4	Re Northern Ontario Properties.....	166
Right-of-Way.....	14	Re Hamilton Street Railway.....	176
Generating Plants—Power Generated..	16	Operating Conditions.....	vi
Operation of.....	29	Operating Results, Summary of Financial	ix
Loads of Municipalities.....	34	Operation of the Systems.....	15
Municipal Work.....	43	Orangeville—Load in Horsepower.....	25
Electrical Engineering and Constr....	78	Cost of Power.....	130
Transformer Changes.....	79	Credit or Charge Account.....	146
Total Mileage of Transmission Lines..	80	Sinking Fund.....	156
Communications.....	82	Municipal Accounts.....	A, 213; B, 265
Account with Provincial Treasurer ..	115	Statements.....	D, 296; E, 318
Funded Debt.....	116	Orillia Water, Light and Power Com-	
Financial Accounts.....	163	mission—Power Purchased.....	17
Balance Sheet.....	164	Orono—Load in Horsepower.....	25
Operating Account.....	166	Cost of Power.....	130
Fixed Assets.....	168	Credit or Charge Account.....	146
Fixed Assets, Changes in.....	170	Sinking Fund.....	156
Reserves.....	172	Municipal Accounts.....	A, 214; B, 266
Utilities Balance Sheets.....	235	Statements.....	D, 304; E, 318
Utilities Operating Reports.....	287	Oshawa—Load in Horsepower.....	25
Generating Stations, Description of ..	347	Municipal Work.....	42
North York Township—Load in Horse-		Cost of Power.....	130
power.....	25	Credit or Charge Account.....	146
Municipal Work.....	39	Sinking Fund.....	156
Cost of Power.....	130	Municipal Accounts.....	A, 214; B, 266
Credit or Charge Account.....	146	Statements.....	D, 294; E, 318
Sinking Fund.....	156	Ottawa—Load in Horsepower.....	25
Municipal Accounts.....	A, 213; B, 265	Cost of Power.....	130
Statements.....	D, 304; E, 318	Credit or Charge Account.....	146
Norwich—Load in Horsepower.....	25	Sinking Fund.....	156
Cost of Power.....	130	Municipal Accounts.....	A, 214; B, 266
Credit or Charge Account.....	146	Statements.....	D, 294; E, 318
Sinking Fund.....	156	Ottawa Valley Power Co.—Power Pur-	
Municipal Accounts.....	A, 213; B, 265	chased.....	17
Statements.....	D, 304; E, 318	Otterville—Load in Horsepower.....	25
Norwood—Load in Horsepower.....	25	Cost of Power.....	130
Cost of Power.....	130	Credit or Charge Account.....	146
Credit or Charge Account.....	146	Sinking Fund.....	156
Sinking Fund.....	156	Municipal Accounts.....	A, 214; B, 266
Municipal Accounts.....	A, 213; B, 265	Statements.....	D, 294; E, 318
Statements.....	D, 304; E, 318	Ottawa—Load in Horsepower.....	25
Norwood—Load in Horsepower.....	25	Cost of Power.....	130
Cost of Power.....	130	Credit or Charge Account.....	146
Credit or Charge Account.....	146	Sinking Fund.....	156
Sinking Fund.....	156	Municipal Accounts.....	A, 214; B, 266
Municipal Accounts.....	A, 213; B, 265	Statements.....	D, 304; E, 318
Statements.....	D, 304; E, 318	Ottawa Valley Power Co.—Power Pur-	

Owen Sound—Load in Horsepower.....	25	Peterborough—Load in Horsepower.....	25
Cost of Power.....	130	Municipal Work.....	42
Credit or Charge Account.....	146	Cost of Power.....	130
Sinking Fund.....	156	Credit or Charge Account.....	146
Municipal Accounts..... A, 215; B, 267		Sinking Fund.....	156
Statements..... D, 294; E, 318		Municipal Accounts..... A, 216; B, 268	
		Statements..... D, 294; E, 320	
<b>P</b>			
Paints and Protective Coatings, Research re.....	86	Petroleum Products, Research re.....	87
Paisley—Load in Horsepower.....	25	Petrolia—Load in Horsepower.....	26
Cost of Power.....	130	Cost of Power.....	130
Credit or Charge Account.....	146	Credit or Charge Account.....	146
Sinking Fund.....	156	Sinking Fund.....	156
Municipal Accounts..... A, 215; B, 267		Municipal Accounts..... A, 216; B, 268	
Statements..... D, 304; E, 320		Statements..... D, 296; E, 320	
Palmerston—Load in Horsepower.....	25	Pickle Crow Gold Mines Ltd., Agreement Approved.....	11
Cost of Power.....	130	Picton—Load in Horsepower.....	26
Credit or Charge Account.....	146	Cost of Power.....	130
Sinking Fund.....	156	Credit or Charge Account.....	146
Municipal Accounts..... A, 215; B, 267		Sinking Fund.....	156
Statements..... D, 304; E, 320		Municipal Accounts..... A, 216; B, 268	
Paris—Load in Horsepower.....	25	Statements..... D, 296; E, 320	
Cost of Power.....	130	Planning, Long Range.....	xii
Credit or Charge Account.....	146	Plattsburgh—Load in Horsepower.....	26
Sinking Fund.....	156	Cost of Power.....	130
Municipal Accounts..... A, 215; B, 267		Credit or Charge Account.....	146
Statements..... D, 296; E, 320		Sinking Fund.....	156
Parkhill—Load in Horsepower.....	25	Municipal Accounts..... A, 216; B, 268	
Municipal Work.....	39	Statements..... D, 304; E, 320	
Cost of Power.....	130	Point Edward—Load in Horsepower.....	26
Credit or Charge Account.....	146	Cost of Power.....	130
Sinking Fund.....	156	Credit or Charge Account.....	146
Municipal Accounts..... A, 215; B, 267		Sinking Fund.....	156
Statements..... D, 304; E, 320		Municipal Accounts..... A, 216; B, 268	
Patricia District Generating Plants—		Statements..... D, 304; E, 320	
Power Generated.....	16	Polymer Corporation Ltd., Agreement Approved.....	11
Operation of.....	32	Port Arthur—Load in Horsepower.....	29
Diagram of Peak Loads.....	33	Cost of Power.....	160
Loads of Municipalities.....	34	Credit or Charge Account.....	160
Fixed Assets.....	169	Sinking Fund.....	162
Peak Loads:		Municipal Accounts..... A, 234; B, 286	
Diagrams, see Section II.....	18	Statements..... D, 294; E, 320	
Rural Hydro Service, Summary of .....	21	Port Carling—Load in Horsepower.....	26
Urban Municipal Utilities, Summary of .....	21	Cost of Power and Rates for Service.....	320
Pembroke Electric Light Co. Ltd.—Power Purchased.....	17	Port Colborne—Load in Horsepower.....	26
Penetanguishene—Load in Horsepower..	25	Cost of Power.....	130
Municipal Work.....	41	Credit or Charge Account.....	146
Cost of Power.....	130	Sinking Fund.....	156
Credit or Charge Account.....	146	Municipal Accounts..... A, 217; B, 269	
Sinking Fund.....	156	Statements..... D, 296; E, 320	
Municipal Accounts..... A, 215; B, 267		Port Credit—Load in Horsepower.....	26
Statements..... D, 296; E, 320		Cost of Power.....	130
Pensions and Insurance.....	xix	Credit or Charge Account.....	146
Perth—Load in Horsepower.....	25	Sinking Fund.....	156
Cost of Power.....	130	Municipal Accounts..... A, 217; B, 269	
Credit or Charge Account.....	146	Statements..... D, 304; E, 320	
Sinking Fund.....	156	Port Dalhousie—Load in Horsepower.....	26
Municipal Accounts..... A, 215; B, 267		Cost of Power.....	130
Statements..... D, 296; E, 320		Credit or Charge Account.....	146

Port Dover—Load in Horsepower.....	26	Priceville—Load in Horsepower.....	26																																																																																																																																																																																														
Cost of Power.....	130	Cost of Power.....	132																																																																																																																																																																																														
Credit or Charge Account.....	146	Credit or Charge Account.....	148																																																																																																																																																																																														
Sinking Fund.....	156	Sinking Fund.....	156																																																																																																																																																																																														
Municipal Accounts.....	A, 217; B, 269	Municipal Accounts.....	A, 219; B, 271																																																																																																																																																																																														
Statements.....	D, 304; E, 320	Statements.....	D, 304; E, 320																																																																																																																																																																																														
Port Elgin—Load in Horsepower.....	26	Primary Power, Distribution of, to Systems.....	viii																																																																																																																																																																																														
Cost of Power.....	130	Princeton—Load in Horsepower.....	26																																																																																																																																																																																														
Credit or Charge Account.....	146	Cost of Power.....	132																																																																																																																																																																																														
Sinking Fund.....	156	Credit or Charge Account.....	148																																																																																																																																																																																														
Municipal Accounts.....	A, 217; B, 269	Sinking Fund.....	156																																																																																																																																																																																														
Statements.....	D, 304; E, 320	Municipal Accounts.....	A, 219; B, 271																																																																																																																																																																																														
Port Hope—Load in Horsepower.....	26	Statements.....	D, 304; E, 320	Statements.....	D, 304; E, 320	Port McNicoll—Load in Horsepower.....	26	Priorities.....	64	Cost of Power.....	130	Production and Service.....	84, 94	Credit or Charge Account.....	146	Promotional Services.....	63	Sinking Fund.....	156			Municipal Accounts.....	A, 217; B, 269			Statements.....	D, 296; E, 320			Port Perry—Load in Horsepower.....	26	<b>Q</b>		Cost of Power.....	132	Quarter Century Club.....	xviii	Credit or Charge Account.....	146	Queenston—Load in Horsepower.....	26	Sinking Fund.....	156	Cost of Power.....	132	Municipal Accounts.....	A, 217; B, 269	Credit or Charge Account.....	148	Statements.....	D, 304; E, 320	Sinking Fund.....	156	Port Rowan—Load in Horsepower.....	26	Municipal Accounts.....	A, 219; B, 271	Cost of Power.....	132	Credit or Charge Account.....	148	Statements.....	D, 304; E, 320	Sinking Fund.....	156	Queenston-Chippawa Gen. Sta.—Power Generated.....	16	Municipal Accounts.....	A, 218; B, 270	Statements.....	D, 304; E, 320	Description of.....	334	Port Stanley—Load in Horsepower.....	26	<b>R</b>		Cost of Power.....	132	Ragged Rapids Gen. Sta.—Power Gen- erated.....	16	Credit or Charge Account.....	148	Sinking Fund.....	156	Description of.....	338	Municipal Accounts.....	A, 218; B, 270	Cost of Power and Rates for Service..	320	Rainy River District—Operation of.....	33	Statements.....	D, 304; E, 320	Fixed Assets.....	169	Post-war Plans.....	xxiv	Ramore-Matheson—Load in Horsepower.	34	Powassan—Load in Horsepower.....	34	Ranney Falls Gen. Sta.—Power Generated	16	Cost of Power and Rates for Service..	320	Description of.....	343	Power Commission Amendment Act— 1944, The.....	327	Rates, for Rural Electrical Service.....	49	Power Generated and Purchased, Table of.....	16	To Urban Consumers, Consult State- ment "E".....	308	Power Purchased—All Systems.....	16	Rat Rapids Gen. Sta.—Power Generated.	16	Power Service, Retail—Statistics re Con- sult Statement "D".....	290	Description of.....	350	Rates for, Consult Statement "E".....	308	Red Lake Townsite—Load in Horsepower	34	Power Supplies, Co-ordination of.....	vi	Cost of Power and Rates for Service..	320	Prescott—Load in Horsepower.....	26	Reforestation.....	35	Cost of Power.....	132	Regulations, Infractions of.....	94	Credit or Charge Account.....	148	Renfrew, Agreement Approved.....	11	Sinking Fund.....	156	Load in Horsepower.....	28	Municipal Accounts.....	A, 218; B, 270	Municipal Work.....	42	Statements.....	D, 296; E, 320	Research, Summary re.....	xvii	Preston—Load in Horsepower.....	26	Laboratories.....	84	Cost of Power.....	132	Miscellaneous.....	88	Credit or Charge Account.....	148	Reserves, Utilization of.....	xi	Sinking Fund.....	156	Summary of.....	xx	Municipal Accounts.....	A, 218; B, 270	Thirty Years' Record.....	3	Statements.....	D, 296; E, 320	Revenue of Commission.....	xxi	Richmond—Load in Horsepower.....	26	Cost of Power.....	132	Credit or Charge Account.....	148	Sinking Fund.....	156	Municipal Accounts.....	A, 219; B, 271	Statements.....	D, 304; E, 320
Statements.....	D, 304; E, 320	Statements.....	D, 304; E, 320																																																																																																																																																																																														
Port McNicoll—Load in Horsepower.....	26	Priorities.....	64																																																																																																																																																																																														
Cost of Power.....	130	Production and Service.....	84, 94																																																																																																																																																																																														
Credit or Charge Account.....	146	Promotional Services.....	63																																																																																																																																																																																														
Sinking Fund.....	156																																																																																																																																																																																																
Municipal Accounts.....	A, 217; B, 269																																																																																																																																																																																																
Statements.....	D, 296; E, 320																																																																																																																																																																																																
Port Perry—Load in Horsepower.....	26	<b>Q</b>																																																																																																																																																																																															
Cost of Power.....	132	Quarter Century Club.....	xviii																																																																																																																																																																																														
Credit or Charge Account.....	146	Queenston—Load in Horsepower.....	26																																																																																																																																																																																														
Sinking Fund.....	156	Cost of Power.....	132																																																																																																																																																																																														
Municipal Accounts.....	A, 217; B, 269	Credit or Charge Account.....	148																																																																																																																																																																																														
Statements.....	D, 304; E, 320	Sinking Fund.....	156																																																																																																																																																																																														
Port Rowan—Load in Horsepower.....	26	Municipal Accounts.....	A, 219; B, 271																																																																																																																																																																																														
Cost of Power.....	132	Credit or Charge Account.....	148	Statements.....	D, 304; E, 320	Sinking Fund.....	156	Queenston-Chippawa Gen. Sta.—Power Generated.....	16	Municipal Accounts.....	A, 218; B, 270	Statements.....	D, 304; E, 320	Description of.....	334	Port Stanley—Load in Horsepower.....	26	<b>R</b>		Cost of Power.....	132	Ragged Rapids Gen. Sta.—Power Gen- erated.....	16	Credit or Charge Account.....	148	Sinking Fund.....	156	Description of.....	338	Municipal Accounts.....	A, 218; B, 270	Cost of Power and Rates for Service..	320	Rainy River District—Operation of.....	33	Statements.....	D, 304; E, 320	Fixed Assets.....	169	Post-war Plans.....	xxiv	Ramore-Matheson—Load in Horsepower.	34	Powassan—Load in Horsepower.....	34	Ranney Falls Gen. Sta.—Power Generated	16	Cost of Power and Rates for Service..	320	Description of.....	343	Power Commission Amendment Act— 1944, The.....	327	Rates, for Rural Electrical Service.....	49	Power Generated and Purchased, Table of.....	16	To Urban Consumers, Consult State- ment "E".....	308	Power Purchased—All Systems.....	16	Rat Rapids Gen. Sta.—Power Generated.	16	Power Service, Retail—Statistics re Con- sult Statement "D".....	290	Description of.....	350	Rates for, Consult Statement "E".....	308	Red Lake Townsite—Load in Horsepower	34	Power Supplies, Co-ordination of.....	vi	Cost of Power and Rates for Service..	320	Prescott—Load in Horsepower.....	26	Reforestation.....	35	Cost of Power.....	132	Regulations, Infractions of.....	94	Credit or Charge Account.....	148	Renfrew, Agreement Approved.....	11	Sinking Fund.....	156	Load in Horsepower.....	28	Municipal Accounts.....	A, 218; B, 270	Municipal Work.....	42	Statements.....	D, 296; E, 320	Research, Summary re.....	xvii	Preston—Load in Horsepower.....	26	Laboratories.....	84	Cost of Power.....	132	Miscellaneous.....	88	Credit or Charge Account.....	148	Reserves, Utilization of.....	xi	Sinking Fund.....	156	Summary of.....	xx	Municipal Accounts.....	A, 218; B, 270	Thirty Years' Record.....	3	Statements.....	D, 296; E, 320	Revenue of Commission.....	xxi	Richmond—Load in Horsepower.....	26	Cost of Power.....	132	Credit or Charge Account.....	148	Sinking Fund.....	156	Municipal Accounts.....	A, 219; B, 271	Statements.....	D, 304; E, 320																																																										
Credit or Charge Account.....	148	Statements.....	D, 304; E, 320																																																																																																																																																																																														
Sinking Fund.....	156	Queenston-Chippawa Gen. Sta.—Power Generated.....	16																																																																																																																																																																																														
Municipal Accounts.....	A, 218; B, 270	Statements.....	D, 304; E, 320	Description of.....	334	Port Stanley—Load in Horsepower.....	26	<b>R</b>		Cost of Power.....	132	Ragged Rapids Gen. Sta.—Power Gen- erated.....	16	Credit or Charge Account.....	148	Sinking Fund.....	156	Description of.....	338	Municipal Accounts.....	A, 218; B, 270	Cost of Power and Rates for Service..	320	Rainy River District—Operation of.....	33	Statements.....	D, 304; E, 320	Fixed Assets.....	169	Post-war Plans.....	xxiv	Ramore-Matheson—Load in Horsepower.	34	Powassan—Load in Horsepower.....	34	Ranney Falls Gen. Sta.—Power Generated	16	Cost of Power and Rates for Service..	320	Description of.....	343	Power Commission Amendment Act— 1944, The.....	327	Rates, for Rural Electrical Service.....	49	Power Generated and Purchased, Table of.....	16	To Urban Consumers, Consult State- ment "E".....	308	Power Purchased—All Systems.....	16	Rat Rapids Gen. Sta.—Power Generated.	16	Power Service, Retail—Statistics re Con- sult Statement "D".....	290	Description of.....	350	Rates for, Consult Statement "E".....	308	Red Lake Townsite—Load in Horsepower	34	Power Supplies, Co-ordination of.....	vi	Cost of Power and Rates for Service..	320	Prescott—Load in Horsepower.....	26	Reforestation.....	35	Cost of Power.....	132	Regulations, Infractions of.....	94	Credit or Charge Account.....	148	Renfrew, Agreement Approved.....	11	Sinking Fund.....	156	Load in Horsepower.....	28	Municipal Accounts.....	A, 218; B, 270	Municipal Work.....	42	Statements.....	D, 296; E, 320	Research, Summary re.....	xvii	Preston—Load in Horsepower.....	26	Laboratories.....	84	Cost of Power.....	132	Miscellaneous.....	88	Credit or Charge Account.....	148	Reserves, Utilization of.....	xi	Sinking Fund.....	156	Summary of.....	xx	Municipal Accounts.....	A, 218; B, 270	Thirty Years' Record.....	3	Statements.....	D, 296; E, 320	Revenue of Commission.....	xxi	Richmond—Load in Horsepower.....	26	Cost of Power.....	132	Credit or Charge Account.....	148	Sinking Fund.....	156	Municipal Accounts.....	A, 219; B, 271	Statements.....	D, 304; E, 320																																																																				
Statements.....	D, 304; E, 320	Description of.....	334																																																																																																																																																																																														
Port Stanley—Load in Horsepower.....	26	<b>R</b>																																																																																																																																																																																															
Cost of Power.....	132	Ragged Rapids Gen. Sta.—Power Gen- erated.....	16																																																																																																																																																																																														
Credit or Charge Account.....	148	Sinking Fund.....	156	Description of.....	338	Municipal Accounts.....	A, 218; B, 270	Cost of Power and Rates for Service..	320	Rainy River District—Operation of.....	33	Statements.....	D, 304; E, 320	Fixed Assets.....	169	Post-war Plans.....	xxiv	Ramore-Matheson—Load in Horsepower.	34	Powassan—Load in Horsepower.....	34	Ranney Falls Gen. Sta.—Power Generated	16	Cost of Power and Rates for Service..	320	Description of.....	343	Power Commission Amendment Act— 1944, The.....	327	Rates, for Rural Electrical Service.....	49	Power Generated and Purchased, Table of.....	16	To Urban Consumers, Consult State- ment "E".....	308	Power Purchased—All Systems.....	16	Rat Rapids Gen. Sta.—Power Generated.	16	Power Service, Retail—Statistics re Con- sult Statement "D".....	290	Description of.....	350	Rates for, Consult Statement "E".....	308	Red Lake Townsite—Load in Horsepower	34	Power Supplies, Co-ordination of.....	vi	Cost of Power and Rates for Service..	320	Prescott—Load in Horsepower.....	26	Reforestation.....	35	Cost of Power.....	132	Regulations, Infractions of.....	94	Credit or Charge Account.....	148	Renfrew, Agreement Approved.....	11	Sinking Fund.....	156	Load in Horsepower.....	28	Municipal Accounts.....	A, 218; B, 270	Municipal Work.....	42	Statements.....	D, 296; E, 320	Research, Summary re.....	xvii	Preston—Load in Horsepower.....	26	Laboratories.....	84	Cost of Power.....	132	Miscellaneous.....	88	Credit or Charge Account.....	148	Reserves, Utilization of.....	xi	Sinking Fund.....	156	Summary of.....	xx	Municipal Accounts.....	A, 218; B, 270	Thirty Years' Record.....	3	Statements.....	D, 296; E, 320	Revenue of Commission.....	xxi	Richmond—Load in Horsepower.....	26	Cost of Power.....	132	Credit or Charge Account.....	148	Sinking Fund.....	156	Municipal Accounts.....	A, 219; B, 271	Statements.....	D, 304; E, 320																																																																																		
Sinking Fund.....	156	Description of.....	338																																																																																																																																																																																														
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Sinking Fund.....	156	Summary of.....	xx	Municipal Accounts.....	A, 218; B, 270	Thirty Years' Record.....	3	Statements.....	D, 296; E, 320	Revenue of Commission.....	xxi	Richmond—Load in Horsepower.....	26	Cost of Power.....	132	Credit or Charge Account.....	148	Sinking Fund.....	156	Municipal Accounts.....	A, 219; B, 271	Statements.....	D, 304; E, 320																																																																																																																																																																										
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Statements.....	D, 296; E, 320	Revenue of Commission.....	xxi	Richmond—Load in Horsepower.....	26	Cost of Power.....	132	Credit or Charge Account.....	148	Sinking Fund.....	156	Municipal Accounts.....	A, 219; B, 271	Statements.....	D, 304; E, 320																																																																																																																																																																																		
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Statements.....	D, 304; E, 320																																																																																																																																																																																																

Richmond Hill—Load in Horsepower . . . . .	26	Power for Electric Motors . . . . .	56
Cost of Power . . . . .	132	Electrical Appliances in Use . . . . .	57
Credit or Charge Account . . . . .	148	Average Cost to Rural Consumers	
Sinking Fund . . . . .	156	Decreasing . . . . .	58
Municipal Accounts . . . . . A, 219; B, 271		Hamlet Service, Statistics re . . . . .	58
Statements . . . . . D, 304; E, 320		Farm Service, Statistics re . . . . .	59
Rideau Power Co.—Power Purchased . . . . .	17	Promotional Activities . . . . .	63
Ridgetown—Load in Horsepower . . . . .	26	Rural Electrification, Bright Future for . . . . .	xvi
Municipal Work . . . . .	39	Rural Power Districts—Rural Primary	
Cost of Power . . . . .	132	Lines Approved . . . . .	46
Credit or Charge Account . . . . .	148	Aggregate Peak Loads . . . . .	47
Sinking Fund . . . . .	156	Miles of Line, Number of Consumers . . . . .	59
Municipal Accounts . . . . . A, 219; B, 271		Capital Expenditures and Grants . . . . .	114
Statements . . . . . D, 304; E, 320		Renewals Reserves . . . . .	118
Right-of-Way and Property . . . . .	12	Sinking Fund Reserves . . . . .	120
Ripley—Load in Horsepower . . . . .	26	Financial Operating Accounts . . . . .	158, 162
Cost of Power . . . . .	132	Service Charge Act, Amendment to . . . . .	331
Credit or Charge Account . . . . .	148	Russell—Load in Horsepower . . . . .	26
Sinking Fund . . . . .	156	Cost of Power . . . . .	132
Municipal Accounts . . . . . A, 219; B, 271		Credit or Charge Account . . . . .	148
Statements . . . . . D, 304; E, 320		Sinking Fund . . . . .	156
Riverside—Load in Horsepower . . . . .	26	Municipal Accounts . . . . . A, 220; B, 272	
Municipal Work . . . . .	39	Statements . . . . . D, 304; E, 320	
Cost of Power . . . . .	132	S	
Credit or Charge Account . . . . .	148	Safety Engineering . . . . .	xviii
Sinking Fund . . . . .	156	St. Catharines—Load in Horsepower . . . . .	26
Municipal Accounts . . . . . A, 220; B, 272		Cost of Power . . . . .	132
Statements . . . . . D, 296; E, 320		Credit or Charge Account . . . . .	148
Robin Hood Flour Mills Ltd., Agreement		Sinking Fund . . . . .	156
Approved . . . . .	11	Municipal Accounts . . . . . A, 221; B, 273	
Rockwood—Load in Horsepower . . . . .	26	Statements . . . . . D, 294; E, 322	
Cost of Power . . . . .	132	St. Clair Beach—Load in Horsepower . . . . .	26
Credit or Charge Account . . . . .	148	Cost of Power . . . . .	132
Sinking Fund . . . . .	156	Credit or Charge Account . . . . .	148
Municipal Accounts . . . . . A, 220; B, 272		Sinking Fund . . . . .	156
Statements . . . . . D, 304; E, 320		Municipal Accounts . . . . . A, 221; B, 273	
Rodney—Load in Horsepower . . . . .	26	Statements . . . . . D, 304; E, 322	
Cost of Power . . . . .	132	St. George—Load in Horsepower . . . . .	26
Credit or Charge Account . . . . .	148	Cost of Power . . . . .	132
Sinking Fund . . . . .	156	Credit or Charge Account . . . . .	148
Municipal Accounts . . . . . A, 220; B, 272		Sinking Fund . . . . .	156
Statements . . . . . D, 304; E, 320		Municipal Accounts . . . . . A, 221; B, 273	
Rosseau—Load in Horsepower . . . . .	26	Statements . . . . . D, 304; E, 322	
Cost of Power . . . . .	132	St. Jacobs—Load in Horsepower . . . . .	26
Credit or Charge Account . . . . .	148	Cost of Power . . . . .	132
Sinking Fund . . . . .	156	Credit or Charge Account . . . . .	148
Municipal Accounts . . . . . A, 220; B, 272		Sinking Fund . . . . .	156
Statements . . . . . D, 304; E, 320		Municipal Accounts . . . . . A, 221; B, 273	
Rural Electrical Service . . . . .	45	Statements . . . . . D, 304; E, 322	
Provincial Assistance . . . . .	45	St. Marys—Load in Horsepower . . . . .	26
Status of Service in 1944 . . . . .	46	Cost of Power . . . . .	132
Extensions Approved . . . . .	48	Credit or Charge Account . . . . .	148
New Rate Structure . . . . .	49	Sinking Fund . . . . .	156
Rate Schedules, Minimum Demand . . . . .	49	Municipal Accounts . . . . . A, 221; B, 273	
Rate Schedules, Additional Charges and Consumptions . . . . .	50	Statements . . . . . D, 296; E, 322	
Farm Service, Description of . . . . .	50	St. Thomas—Load in Horsepower . . . . .	26
Hamlet Service, Description of . . . . .	51	Municipal Work . . . . .	39
Commercial Service, Description of . . . . .	51	Cost of Power . . . . .	132
Summer Service, Description of . . . . .	51	Credit or Charge Account . . . . .	148
Five-Year Plan for Future Rural Development . . . . .	51	Sinking Fund . . . . .	156
Development, Statistics re . . . . .	52	Municipal Accounts . . . . . A, 221; B, 273	
Rural Loans . . . . .	52	Statements . . . . . D, 294; E, 322	
Farm Uses for Electricity . . . . .	53	Sandwich, Windsor & Amherstburg Railway Sinking Fund . . . . .	157
Lighting Service . . . . .	54		
Heating Service . . . . .	55		

Sarnia—Load in Horsepower.....	26	Southern Ontario Divisions, Amalgamation of.....	vii
Municipal Work.....	39		
Cost of Power.....	132	Southern Ontario System, Comparative Financial Statements—Two Years.....	xxii
Credit or Charge Account.....	148	Summary Statements Respecting Utilities.....	xiii
Sinking Fund.....	156		
Municipal Accounts..... A, 222; B, 274		Power Resources—Thirty Years' Record	7
Statements..... D, 294; E, 322		Right of Way.....	12
Scarborough Township—Load in Horsepower.....	26	Diagram of Primary Peak Loads.....	19
Cost of Power.....	132	Operation of.....	20
Credit or Charge Account.....	148	Engineering Assistance to Municipalities	36
Sinking Fund.....	156	Hydraulic Construction.....	65
Municipal Accounts..... A, 222; B, 274		Electrical Engineering and Constr.....	72
Statements..... D, 304; E, 322		Transformer Changes.....	79
School Lighting.....	xvii	Total Mileage of Transmission Lines.....	80
Promotional Work.....	63	High-Voltage Line Changes.....	81
Seaforth—Load in Horsepower.....	26	Low-Voltage Line Changes.....	81
Cost of Power.....	132	Communications.....	82
Credit or Charge Account.....	148	Statement of Operations.....	102
Sinking Fund.....	156	Fixed Assets.....	106
Municipal Accounts..... A, 222; B, 274		Fixed Assets, Changes in.....	110
Statements..... D, 304; E, 322		Power Accounts Receivable.....	118
Secondary Power, Distribution of, to Systems.....	viii	Renewals Reserves.....	118
Service Charge in Rural Power Districts	49	Contingencies and Obsolescence Reserves.....	119
Urban Utilities, Consult Statement "E".....	308	Stabilization of Rates Reserves.....	120
Seymour Gen. Sta.—Power Generated.....	16	Sinking Fund Reserves.....	120
Description of.....	343	Cost of Power Table.....	122
Shelburne—Load in Horsepower.....	26	Credit or Charge Table.....	138
Cost of Power.....	132	Sinking Fund Equities.....	154
Credit or Charge Account.....	148	Rural Operating Report.....	158
Sinking Fund.....	156	Rural Lines.....	159
Municipal Accounts..... A, 222; B, 274		Utilities Balance Sheets.....	184
Statements..... D, 304; E, 322		Utilities Operating Reports.....	236
Sidney Gen. Sta.—Power Generated.....	16	Generating Stations, Description of.....	333
Description of.....	342		
Sills Island Gen. Sta.—Power Generated.....	16	South Falls Gen. Sta.—Power Generated.....	16
Description of.....	342	Description of.....	338
Simcoe—Load in Horsepower.....	26	Specification and Committee Work.....	92
Cost of Power.....	132	Springfield—Load in Horsepower.....	26
Credit or Charge Account.....	148	Cost of Power.....	132
Sinking Fund.....	156	Credit or Charge Account.....	148
Municipal Accounts..... A, 222; B, 274		Sinking Fund.....	157
Statements..... D, 296; E, 322		Municipal Accounts..... A, 223; B, 275	
Sioux Lookout—Load in Horsepower.....	34	Statements..... D, 304; E, 322	
Municipal Accounts..... A, 235; B, 287			
Statements..... D, 304; E, 322			
Smiths Falls—Load in Horsepower.....	26	Stamford Township—Load in Horsepower.....	26
Cost of Power.....	132	Cost of Power.....	132
Credit or Charge Account.....	148	Credit or Charge Account.....	148
Sinking Fund.....	156	Sinking Fund.....	157
Municipal Accounts..... A, 223; B, 275		Municipal Accounts..... A, 223; B, 275	
Statements..... D, 296; E, 322		Statements..... D, 306; E, 322	
Smithville—Load in Horsepower.....	26		
Cost of Power.....	132	Statement "A" Utility Balance Sheets.....	184
Credit or Charge Account.....	148	Statement "B" Utility Operating Reports.....	236
Sinking Fund.....	156	Statement "C" Street Lighting.....	Suspended
Municipal Accounts..... A, 223; B, 275			
Statements..... D, 304; E, 322		Statement "D" Statistics re Utilities' Consumers.....	290
Southampton—Load in Horsepower.....	26		
Municipal Work.....	41	Statement "E" Rates to Utilities' Consumers.....	308
Cost of Power.....	132		
Credit or Charge Account.....	148		
Sinking Fund.....	156		
Municipal Accounts..... A, 223; B, 275			
Statements..... D, 304; E, 322			
Stayner—Load in Horsepower.....	26		
Cost of Power.....	132		
Credit or Charge Account.....	148		
Sinking Fund.....	156		
Municipal Accounts..... A, 223; B, 275			
Statements..... D, 304; E, 322			

Steel and Timber, Inspection of . . . . .	90
Stinson Gen. Sta.—Power Generated . . . . .	16
Description of . . . . .	348
Stirling—Load in Horsepower . . . . .	26
Cost of Power . . . . .	132
Credit or Charge Account . . . . .	148
Sinking Fund . . . . .	157
Municipal Accounts . . . . . A, 223; B, 275	
Statements . . . . . D, 306; E, 322	
Stoney Creek—Load in Horsepower . . . . .	26
Cost of Power and Rates for Service . . . . .	322
Stouffville—Load in Horsepower . . . . .	26
Municipal Work . . . . .	39
Cost of Power . . . . .	134
Credit or Charge Account . . . . .	148
Sinking Fund . . . . .	157
Municipal Accounts . . . . . A, 224; B, 276	
Statements . . . . . D, 306; E, 322	
Stratford—Load in Horsepower . . . . .	26
Cost of Power . . . . .	134
Credit or Charge Account . . . . .	150
Sinking Fund . . . . .	157
Municipal Accounts . . . . . A, 224; B, 276	
Statements . . . . . D, 294; E, 322	
Strathroy—Load in Horsepower . . . . .	27
Cost of Power . . . . .	134
Credit or Charge Account . . . . .	150
Sinking Fund . . . . .	157
Municipal Accounts . . . . . A, 224; B, 276	
Statements . . . . . D, 296; E, 322	
Streetsville—Load in Horsepower . . . . .	27
Cost of Power . . . . .	134
Credit or Charge Account . . . . .	150
Sinking Fund . . . . .	157
Municipal Accounts . . . . . A, 224; B, 276	
Statements . . . . . D, 306; E, 322	
Sudbury—Load in Horsepower . . . . .	34
Municipal Accounts . . . . . A, 235; B, 287	
Statements . . . . . D, 294; E, 322	
Sudbury District	
Generating Plants—Power Generated . . . . .	16
Operation of . . . . .	31
Diagram of Peak Loads . . . . .	31
Loads of Municipalities . . . . .	34
Fixed Assets . . . . .	168
Sunderland—Load in Horsepower . . . . .	27
Cost of Power . . . . .	134
Credit or Charge Account . . . . .	150
Sinking Fund . . . . .	157
Municipal Accounts . . . . . A, 224; B, 276	
Statements . . . . . D, 306; E, 322	
Survey Work . . . . .	14
Sutton—Load in Horsepower . . . . .	27
Cost of Power . . . . .	134
Credit or Charge Account . . . . .	150
Sinking Fund . . . . .	157
Municipal Accounts . . . . . A, 225; B, 277	
Statements . . . . . D, 306; E, 322	
Swansea—Load in Horsepower . . . . .	27
Cost of Power . . . . .	134
Credit or Charge Account . . . . .	150
Sinking Fund . . . . .	157
Municipal Accounts . . . . . A, 225; B, 277	
Statements . . . . . D, 296; E, 322	

Tara—Load in Horsepower . . . . .	27
Cost of Power . . . . .	134
Credit or Charge Account . . . . .	150
Sinking Fund . . . . .	157
Municipal Accounts . . . . . A, 225; B, 277	
Statements . . . . . D, 306; E, 322	
Tavistock—Load in Horsepower . . . . .	27
Cost of Power . . . . .	134
Credit or Charge Account . . . . .	150
Sinking Fund . . . . .	157
Municipal Accounts . . . . . A, 225; B, 277	
Statements . . . . . D, 306; E, 322	
Tecumseh—Load in Horsepower . . . . .	27
Cost of Power . . . . .	134
Credit or Charge Account . . . . .	150
Sinking Fund . . . . .	157
Municipal Accounts . . . . . A, 225; B, 277	
Statements . . . . . D, 296; E, 322	
Teeswater—Load in Horsepower . . . . .	27
Cost of Power . . . . .	134
Credit or Charge Account . . . . .	150
Sinking Fund . . . . .	157
Municipal Accounts . . . . . A, 225; B, 277	
Statements . . . . . D, 306; E, 322	
Testing and Research, Summary re . . . . .	xvii
Testing Laboratories . . . . .	84
Thamesford—Load in Horsepower . . . . .	27
Cost of Power . . . . .	134
Credit or Charge Account . . . . .	150
Sinking Fund . . . . .	157
Municipal Accounts . . . . . A, 225; B, 277	
Statements . . . . . D, 306; E, 322	
Thamesville—Load in Horsepower . . . . .	27
Cost of Power . . . . .	134
Credit or Charge Account . . . . .	150
Sinking Fund . . . . .	157
Municipal Accounts . . . . . A, 226; B, 278	
Statements . . . . . D, 306; E, 322	
Thedford—Load in Horsepower . . . . .	27
Cost of Power . . . . .	134
Credit or Charge Account . . . . .	150
Sinking Fund . . . . .	157
Municipal Accounts . . . . . A, 226; B, 278	
Statements . . . . . D, 306; E, 322	
Thornbury—Load in Horsepower . . . . .	28
Municipal Work . . . . .	41
Thorndale—Load in Horsepower . . . . .	27
Cost of Power . . . . .	134
Credit or Charge Account . . . . .	150
Sinking Fund . . . . .	157
Municipal Accounts . . . . . A, 226; B, 278	
Statements . . . . . D, 306; E, 322	
Thornton—Load in Horsepower . . . . .	27
Cost of Power . . . . .	134
Credit or Charge Account . . . . .	150
Sinking Fund . . . . .	157
Municipal Accounts . . . . . A, 226; B, 278	
Statements . . . . . D, 306; E, 322	
Thorold—Load in Horsepower . . . . .	27
Cost of Power . . . . .	134
Credit or Charge Account . . . . .	150
Sinking Fund . . . . .	157
Municipal Accounts . . . . . A, 226; B, 278	
Statements . . . . . D, 296; E, 322	

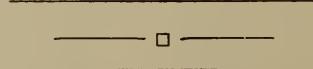
Thunder Bay System, Comparative Financial Statements—Two Years..	xxii	Tottenham—Load in Horsepower.....	27
Summary Statements Respecting Utilities.....	xxiii	Cost of Power.....	134
Right-of-Way.....	14	Credit or Charge Account.....	150
Generating Plants—Power Generated..	16	Sinking Fund.....	157
Diagram of Peak Loads.....	28	Municipal Accounts.....	A, 227; B, 279
Loads of Municipalities.....	29	Statements.....	D, 306; E, 324
Operation of.....	29	Trafalgar Township Area No. 1—Load in Horsepower.....	27
Municipal Work.....	42	Municipal Work.....	40
Engineering Assistance to Municipalities and Mines.....	43	Cost of Power.....	134
Hydraulic Construction.....	68	Credit or Charge Account.....	150
Electrical Engineering and Constr.....	77	Sinking Fund.....	157
Total Mileage of Transmission Lines..	80	Municipal Accounts.....	A, 227; B, 279
Statement of Operations.....	103	Statements.....	D, 306; E, 324
Fixed Assets.....	108	Trafalgar Township Area No. 2—Load in Horsepower.....	27
Fixed Assets, Changes in.....	112	Cost of Power.....	134
Power Accounts Receivable.....	118	Credit or Charge Account.....	150
Renewals Reserves.....	118	Sinking Fund.....	157
Contingencies and Obsolescence Res'v'	119	Municipal Accounts.....	A, 227; B, 279
Stabilization of Rates Reserves.....	120	Statements.....	D, 306; E, 324
Sinking Fund Reserves.....	120	Transformer Changes, Tabulation of.....	79
Cost of Power Table.....	160	Transmission Line Changes and Additions	81
Credit or Charge Table.....	160	Transmission Line Materials, Inspection of.....	90
Sinking Fund Equities.....	162	Transmission Structures, Wooden, Treat- ment of.....	85
Rural Operating Report.....	162	Transport, Department of—Power Pur- chased.....	17
Utilities Balance Sheets.....	234	Trenton—Load in Horsepower.....	27
Utilities Operating Reports.....	286	Cost of Power.....	134
Generating Stations, Description of.....	346	Credit or Charge Account.....	150
Tilbury—Load in Horsepower.....	27	Sinking Fund.....	157
Cost of Power.....	134	Municipal Accounts.....	A, 228; B, 280
Credit or Charge Account.....	150	Statements.....	D, 296; E, 324
Sinking Fund.....	157	Tretheway Falls Gen. Sta.—Power Gen- erated.....	16
Municipal Accounts.....	A, 227; B, 279	Description of.....	339
Statements.....	D, 306; E, 322	Tweed—Load in Horsepower.....	27
Tillsonburg—Load in Horsepower.....	27	Cost of Power.....	134
Municipal Work.....	39	Credit or Charge Account.....	150
Cost of Power.....	134	Sinking Fund.....	157
Credit or Charge Account.....	150	Municipal Accounts.....	A, 228; B, 280
Sinking Fund.....	157	Statements.....	D, 306; E, 324
Municipal Accounts.....	A, 227; B, 279		
Statements.....	D, 296; E, 322		
Toronto—Load in Horsepower.....	27		
Cost of Power.....	134		
Credit or Charge Account.....	150		
Sinking Fund.....	157		
Municipal Accounts.....	A, 227; B, 279		
Statements.....	D, 294; E, 324		
Toronto Power Gen. Sta.—Power Gen- erated.....	16		
Description of.....	335		
Toronto Township—Load in Horsepower.	27		
Cost of Power.....	134		
Credit or Charge Account.....	150		
Sinking Fund.....	157		
Municipal Accounts.....	A, 227; B, 279		
Statements.....	D, 306; E, 324		
Toronto Transportation Commission—			
Cost of Power.....	136		
Credit or Charge Account.....	152		
Sinking Fund.....	157		
U			
Union Gas Co. of Canada Ltd., Agree- ment Approved.....	11		
Uxbridge—Load in Horsepower.....	27		
Municipal Work.....	41		
Cost of Power.....	134		
Credit or Charge Account.....	150		
Sinking Fund.....	157		
Municipal Accounts.....	A, 228; B, 280		
Statements.....	D, 306; E, 324		
V			
Vibration of Line Conductors, Studies re.	85		
Victoria Harbour—Load in Horsepower..	27		
Cost of Power.....	134		
Credit or Charge Account.....	150		
Sinking Fund.....	157		
Municipal Accounts.....	A, 228; B, 280		
Statements.....	D, 306; E, 324		

## W

Walkerton—Load in Horsepower.....	27
Cost of Power.....	134
Credit or Charge Account.....	150
Sinking Fund.....	157
Municipal Accounts.....	A, 228; B, 280
Statements.....	D, 296; E, 324
Walkerton Gen. Sta.—Power Generated	16
Description of.....	340
Wallaceburg—Load in Horsepower.....	27
Municipal Work.....	40
Cost of Power.....	134
Credit or Charge Account.....	150
Sinking Fund.....	157
Municipal Accounts.....	A, 229; B, 281
Statements.....	D, 296; E, 324
War Activities.....	v
War Services.....	63
Wardsville—Load in Horsepower.....	27
Cost of Power.....	134
Credit or Charge Account.....	150
Sinking Fund.....	157
Municipal Accounts.....	A, 229; B, 281
Statements.....	D, 306; E, 324
Warkworth—Load in Horsepower.....	27
Cost of Power.....	134
Credit or Charge Account.....	150
Sinking Fund.....	157
Municipal Accounts.....	A, 229; B, 281
Statements.....	D, 306; E, 324
Wasdells Falls Gen. Sta.—Power Generated.....	16
Description of.....	339
Waterdown—Load in Horsepower.....	27
Cost of Power.....	134
Credit or Charge Account.....	150
Sinking Fund.....	157
Municipal Accounts.....	A, 229; B, 281
Statements.....	D, 306; E, 324
Waterford—Load in Horsepower.....	27
Cost of Power.....	134
Credit or Charge Account.....	150
Sinking Fund.....	157
Municipal Accounts.....	A, 229; B, 281
Statements.....	D, 306; E, 324
Waterloo—Load in Horsepower.....	27
Municipal Work.....	40
Cost of Power.....	134
Credit or Charge Account.....	150
Sinking Fund.....	157
Municipal Accounts.....	A, 229; B, 281
Statements.....	D, 296; E, 324
Watford—Load in Horsepower.....	27
Cost of Power.....	136
Credit or Charge Account.....	150
Sinking Fund.....	157
Municipal Accounts.....	A, 229; B, 281
Statements.....	D, 306; E, 324
Waubaushene—Load in Horsepower.....	27
Cost of Power.....	136
Credit or Charge Account.....	152
Sinking Fund.....	157
Municipal Accounts.....	A, 230; B, 282
Statements.....	D, 306; E, 324

Welland—Load in Horsepower.....	27
Cost of Power.....	136
Credit or Charge Account.....	152
Sinking Fund.....	157
Municipal Accounts.....	A, 230; B, 282
Statements.....	D, 294; E, 324
Wellesley—Load in Horsepower.....	27
Cost of Power.....	136
Credit or Charge Account.....	152
Sinking Fund.....	157
Municipal Accounts.....	A, 230; B, 282
Statements.....	D, 306; E, 324
Wellington—Load in Horsepower.....	27
Cost of Power.....	136
Credit or Charge Account.....	152
Sinking Fund.....	157
Municipal Accounts.....	A, 230; B, 282
Statements.....	D, 306; E, 324
West Lorne—Load in Horsepower.....	27
Municipal Work.....	40
Cost of Power.....	136
Credit or Charge Account.....	152
Sinking Fund.....	157
Municipal Accounts.....	A, 231; B, 283
Statements.....	D, 306; E, 324
Weston—Load in Horsepower.....	27
Cost of Power.....	136
Credit or Charge Account.....	152
Sinking Fund.....	157
Municipal Accounts.....	A, 231; B, 283
Statements.....	D, 296; E, 324
Westport—Load in Horsepower.....	27
Cost of Power.....	136
Credit or Charge Account.....	152
Sinking Fund.....	157
Municipal Accounts.....	A, 231; B, 283
Statements.....	D, 306; E, 324
Wheatley—Load in Horsepower.....	27
Cost of Power.....	136
Credit or Charge Account.....	152
Sinking Fund.....	157
Municipal Accounts.....	A, 231; B, 283
Statements.....	D, 306; E, 324
Whitby—Load in Horsepower.....	27
Cost of Power.....	136
Credit or Charge Account.....	152
Sinking Fund.....	157
Municipal Accounts.....	A, 231; B, 283
Statements.....	D, 296; E, 324
Wiarton—Load in Horsepower.....	27
Cost of Power.....	136
Credit or Charge Account.....	152
Sinking Fund.....	157
Municipal Accounts.....	A, 231; B, 283
Statements.....	D, 306; E, 324
Williamsburg—Load in Horsepower.....	27
Cost of Power.....	136
Credit or Charge Account.....	152
Sinking Fund.....	157
Municipal Accounts.....	A, 231; B, 283
Statements.....	D, 306; E, 324
Winchester—Load in Horsepower.....	27
Cost of Power.....	136
Credit or Charge Account.....	152
Sinking Fund.....	157
Municipal Accounts.....	A, 232; B, 284
Statements.....	D, 306; E, 324

Windermere—Load in Horsepower.....	27	Wyoming—Load in Horsepower.....	28
Cost of Power.....	136	Cost of Power.....	136
Credit or Charge Account.....	152	Credit or Charge Account.....	152
Sinking Fund.....	157	Sinking Fund.....	157
Municipal Accounts..... A, 232; B, 284		Municipal Accounts..... A, 233; B, 285	
Statements..... D, 306; E, 324		Statements..... D, 306; E, 324	
Windsor—Load in Horsepower.....	27	X	
Municipal Work.....	40		
Cost of Power.....	136		
Credit or Charge Account.....	152		
Sinking Fund.....	157		
Municipal Accounts..... A, 232; B, 284			
Statements..... D, 294; E, 324			
Wingham—Load in Horsepower.....	27	Y	
Cost of Power.....	136		
Credit or Charge Account.....	152		
Sinking Fund.....	157		
Municipal Accounts..... A, 232; B, 284			
Statements..... D, 296; E, 324			
Woodbridge—Load in Horsepower.....	27	York Township—Load in Horsepower.....	28
Cost of Power.....	136	Municipal Work.....	40
Credit or Charge Account.....	152	Cost of Power.....	136
Sinking Fund.....	157	Credit or Charge Account.....	152
Municipal Accounts..... A, 232; B, 284		Sinking Fund.....	157
Statements..... D, 306; E, 324		Municipal Accounts..... A, 233; B, 285	
Woodstock—Load in Horsepower.....	28	Statements..... D, 306; E, 324	
Municipal Work.....	40	Z	
Cost of Power.....	136		
Credit or Charge Account.....	152		
Sinking Fund.....	157		
Municipal Accounts..... A, 233; B, 285			
Statements..... D, 294; E, 324			
Woodville—Load in Horsepower.....	28	Zurich—Load in Horsepower.....	28
Cost of Power.....	136	Cost of Power.....	136
Credit or Charge Account.....	152	Credit or Charge Account.....	152
Sinking Fund.....	157	Sinking Fund.....	157
Municipal Accounts..... A, 233; B, 285		Municipal Accounts..... A, 233; B, 285	
Statements..... D, 306; E, 324		Statements..... D, 306; E, 324	















PORTION OF  
NORTHWESTERN  
ONTARIO

Scale 100 miles = 1 inch

0 50 100

mi.

km.

0 50 100

mi.

km.

THE HYDRO-ELECTRIC POWER COMMISSION  
OF ONTARIO

MAP OF PORTION OF THE  
PROVINCE OF ONTARIO  
SHOWING

TRANSMISSION LINES AND STATIONS  
OF THE  
SOUTHERN ONTARIO SYSTEM

Scale: 100 miles or 15.78 miles = 1 inch

0 10 20 30 40

mi.  
km.

0 50 100

mi.  
km.



